South Dakota Science and Technology Authority

Board Meeting September 17, 2015



630 East Summit Street Lead, SD 57754

South Dakota Science and Technology Authority Board Meeting – September 17, 2015

Agenda Item: 01

Call to Order - Chairperson Casey Peterson

1A. Call Roll

Dr. Ani Aprahamian

Mr. Paul Christen

Mr. Dana Dykhouse

Ms. Pat Lebrun

Mr. Casey Peterson

Mr. Ron Wheeler

Dr. Robert Wilson

Dr. Heather Wilson

1B. Introduce New Board Member Dr. Robert Wilson and Introduce Guests

Recommended Action:

Informational

South Dakota Science and Technology Authority Board Meeting – September 17, 2015 Agenda Item: 02 Approve Agenda - Chairperson Casey Peterson Attached is the SDSTA Board agenda for the September 17, 2015 meeting.

AGENDA

South Dakota Science and Technology Authority 630 East Summit Street, Lead, South Dakota Annual Meeting of the Board of Directors Thursday, September 17, 2015 at 9:00 AM (MT)

SDSTA Mission: To enable compelling underground research in a safe work environment and foster transformational science education.

	Title	Report	Recommendations		
1.	Call to Order	Chair Casey Peterson	Informational		
	A. Call Roll				
	B. Welcome New Board Director Dr. Robert Wilson and Introduce Guests				
2.	Approve Agenda	Chair Casey Peterson	Motion to approve agenda		
3.	Approve Minutes	Chair Casey Peterson	Motion to approve June 30, 2015 minutes		
4.	South Dakota Community Foundation	Mr. Ron Wheeler			
5.	Audit Committee Report	Ms. Pat Lebrun	Motion to accept audit committee report		
6.	Financial Report	Mr. Mike Headley			
	A. Financial Statements	Ms. Nancy Geary			
	B. Interest Letter on State-held Funds				
	C. Fixed Asset Listing				
	D. FY Per Diems Report				
	E. BOA Captive Grant Agreement,	Mr. Tim Engel	Informational		
_	Signed		Motion to accept financial report		
7.	Report from Executive Director	Mr. Mike Headley			
	A. SDSTA Report		Motion to accept executive director's report		
	B. Easement Agreement between Homestake and SDSTA		Motion to approve easement agreement between Homestake and SDSTA, and to authorize the chairperson and executive director, in consultation with legal counsel, to finalize and agree to the terms of the Exhibits thereto		
	C. Strategic Plan Report		Motion to approve strategic plan as presented		
	D. Declarations of Surplus for ATV and Refuge Chambers		Informational		
	E. E&O Curriculum Development	Dr. June Apaza	Informational		
	F. Visitor Center Update	Ms. Billi Bierle			
8.	Discuss Draft Programmatic Agreement (Long Baseline Neutrino Facility)	Mr. Mike Headley	Motion to authorize executive director to sign the draft programmatic agreement		
9.	PDA-Third Agreement between Homestake and SDSTA, Signed	Mr. Tim Engel	Informational		

Please do not place or accept cell phone calls during this meeting. A copy of this agenda has been posted in a manner visible to the public at the entrance to the South Dakota Science and Technology Authority office located at 630 East Summit Street, Lead, South Dakota at least 24 hours prior to this meeting. Telephone: (605) 722-8650.

AGENDA

South Dakota Science and Technology Authority 630 East Summit Street, Lead, South Dakota Annual Meeting of the Board of Directors Thursday, September 17, 2015 at 9:00 AM (MT)

	Title	Report	Recommendations
10.	Executive Session	Chair Casey Peterson	Motion to enter executive session to discuss personnel matters and to consult with legal counsel concerning contractual matters
11.	Report from Executive Session	Chair Casey Peterson	Motion to accept executive session report
12.	Conflict of Interest Mitigation Plan	Mr. Tim Engel	Motion to approve conflict of interest mitigation plan
13.	Confirm date and time of next meeting	Chair Casey Peterson	Thursday, December 17, 2015 at 9:00am (MT)
14.	Board Comments		
15.	Adjourn	Chair Casey Peterson	Motion to adjourn

SDSTA Board Member Terms of Service, Committees and Schedule

	Board Members and Terms of Service									
	Board Members	Appointed	Term Expires							
1.	Dr. Ani Aprahamian	December 10, 2009	December 9, 2015							
2.	Mr. Paul Christen	January 31, 2011	August 8, 2016							
3.	Mr. Dana Dykhouse, Vice-chair	Re-appointed August 1, 2014	August 14, 2020							
4.	Ms. Patricia Lebrun, Secretary-Treasurer	Re-appointed August 16, 2010	August 8, 2016							
5.	Mr. Casey Peterson, Chair	Re-appointed August 25, 2015	August 8, 2021							
6.	Mr. Ron Wheeler, Vice-chair	Re-appointed April 10, 2014	April 9, 2020							
7.	Dr. Robert Wilson	August 24, 2015	August 8, 2021							
8.	Dr. Heather Wilson, ex-officio member	SDSM&T President appointed July 1, 2014								
	Committees and Members (2015)	2015 Board Schedule								
	Audit Committee Members:	March 20, 2015	9:00 am (MT)							
	Paul Christen, Pat Lebrun-Chair	June 30, 2015	8:30 am (MT)							
	Nominating Committee Members:	September 17, 2015	9:00 am (MT)							
	Ani Aprahamian, Dana Dykhouse	December 17, 2015	9:00 am (MT)							

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South Dakota Science and Technology Authority Board Meeting – September 17, 2015 Approve Minutes – Chairperson Casey Peterson

Attached is the SDSTA Board Minutes from the annual meeting held on June 30, 2015.								

South Dakota Science and Technology Authority Board of Directors Meeting Minutes Tuesday, June 30, 2015 Lead, South Dakota

The Board of Directors of the South Dakota Science and Technology Authority (SDSTA) convened at 8:34 AM Mountain Time (MT) on Tuesday, June 30, 2015 in the 2nd Floor Vault Conference Room at the South Dakota Science and Technology Authority, 630 East Summit Street, Lead, South Dakota.

MEMBERS OF THE BOARD IN ATTENDANCE

Dr. Ani Aprahamian

Mr. Paul Christen

Vice Chairperson Dana Dykhouse

Secretary/Treasurer Patricia Lebrun

Chairperson Casey Peterson

Vice Chairperson Ron Wheeler

Dr. Heather Wilson

MEMBERS OF THE BOARD NOT IN ATTENDANCE

Mr. Thomas Adam

SDSTA STAFF

Mr. Tim Engel, Legal Counsel

Ms. Nancy Geary, Chief Financial Officer

Mr. Mike Headley, Executive Director

Ms. Sharon Hemmingson, Business Services & Contracts Manager

Ms. Mandy Knight, User Support Office Manager

Ms. Leatta Mathis, Contracts Specialist

Mr. KC Russell, Cultural Diversity Coordinator

Mr. Noel Schroeder, Environment, Health and Safety (EHS) Director

ALSO PRESENT DURING ALL OR PART OF THE MEETING

Ms. June Apaza, Education and Outreach Director (BHSU)

Ms. Muffy Christen, Board Member's spouse

Ms. Elizabeth Freer, Oppenheim Lewis

Mr. Michael Ledford, Lewis-Burke Associates

Ms. Patti McNamara, Board Member's guest

Mr. Denny Sanford, philanthropist

Mr. Joshua Willhite, Long Baseline Neutrino Facility Far Site Conventional Facilities (LBNF FSCF)

Project Manager

ITEM 1. - CALL TO ORDER

Chairperson Peterson called the meeting to order at 8:34 AM (MT). Roll call was held. All members were present except Mr. Adam and Dr. Wilson, who joined the meeting at 8:38 AM.

Chairperson Peterson asked audience members to introduce themselves. Chairperson Peterson welcomed Mr. Michael Ledford of the SDSTA's advocacy firm Lewis-Burke Associates and lauded their efforts in obtaining federal funding for the project.

ITEM 2. – APPROVE AGENDA

Chairperson Peterson asked for a motion to approve the agenda.

Motion by Mr. Wheeler and second by Mr. Christen to approve the agenda as presented. Motion passed unanimously.

ITEM 3. – APPROVE MINUTES

Chairperson Peterson asked for comments, changes, or corrections to the Minutes of the March 20 and May 11, 2015 meetings. Hearing none, a motion to approve was requested.

Motion by Mr. Dykhouse and second by Ms. Lebrun to approve the Minutes of the March 20 and May 11, 2015 meetings as presented. Motion passed unanimously.

ITEM 4. – AUDIT COMMITTEE

Ms. Patricia Lebrun reported that she and Mr. Paul Christen had participated in the audit close-out teleconference with SDSTA Chief Financial Officer (CFO) Ms. Nancy Geary. She and Mr. Christen also reviewed the Audit Committee Charter and concurred no revisions were necessary.

Motion by Ms. Lebrun and second by Mr. Christen to accept the audit report as presented. Motion passed unanimously.

Ms. Lebrun and Mr. Christen accepted Chairperson Peterson's appointment to continue to serve on the Audit Committee. Chairperson Peterson voiced his appreciation of their service on this important committee.

ITEM 5. – FINANCIAL REPORT

SDSTA Executive Director Mr. Mike Headley and CFO Ms. Geary provided an overview of the Fiscal Year (FY) 2016 budget including any increases or decreases from the FY 2015 Operating and CAPEX budgets, carry-over CAPEX project amounts, and the overall sources of funding for the new fiscal year.

Ms. Geary noted the \$10 million for the Ross Shaft rehabilitation and the \$3.5 million slated for LUX-ZEPLIN (LZ) surface facility upgrades and xenon gas purchase were not funded at this point. Mr. Headley advised that up to \$10 million is expected from the Department of Energy (DOE) through Fermilab upon Congressional appropriation.

Motion by Mr. Wheeler and second by Mr. Dykhouse to approve the FY 2016 administration, CAPEX and federal budget, with expenditure authority for the \$3.5 million LZ surface facility upgrades and xenon gas purchase subject to securing funding. Motion passed unanimously.

Ms. Geary reported the May financials are in good shape. She said revenue looks especially good, thanks to the \$3.95 million South Dakota Legislative appropriation and nearly \$2 million from Future funds. Mr. Headley advised that all the raw steel material to complete rehabilitation of the Ross Shaft has been purchased. The budget for the Visitor Center increased approximately \$150,000 over the \$5 million authorized by the board.

Mr. Joshua Willhite, Visitor Center Project Manager, provided an overview of the newly approved FY 2016 CAPEX "Davis Ring Tribute" line item. Sturgis sculptor and South Dakota artist laureate Mr. Dale Lamphere is designing the Davis Tribute, utilizing pieces of the original water tank from Ray Davis's Nobel Prize-winning neutrino experiment. A celebration commemorating the 50th anniversary of Davis's work on the 4850L of the Homestake Mine is planned for later this fall when the tribute has been installed at the Visitor Center.

Vice Chairperson Wheeler thanked Mr. T. Denny Sanford for his flexibility in allowing the Board to redirect Gift #3 funds, and for his encouragement and advice to leverage that amount by raising an additional \$3.5 million from other private funds.

Motion by Mr. Christen and second by Mr. Dykhouse to accept the financial report. Motion passed unanimously.

ITEM 6. – REPORT FROM THE EXECUTIVE DIRECTOR

Mr. Headley proclaimed excitement that the SDSTA's safety performance continues to improve, as evidenced by completing the first six months of 2015 without a recordable injury, for a total of nine months since Sanford Laboratory's last recordable injury. Mr. Headley emphasized the federal partners are very pleased by Sanford Laboratory's progress. Members of the recent Environment, Health, and Safety Oversight Committee (EHSOC) review were impressed with the safety culture developing at Sanford Laboratory, which stands as a testament to EHS Director Noel A. Schroeder, the EHS team, and the entire staff.

Mr. Dykhouse congratulated the entire staff on this milestone achievement, noting everyone must be involved to accomplish a safety culture as Sanford Laboratory is now experiencing.

Mr. Headley reported trips underground have risen to 50 - 60 daily, including researchers and contractors. He noted this number rises significantly with tours like those scheduled for the board and selected guests later in the day.

Mr. Headley recognized Mr. Willhite and Project Controls Analyst Ms. Pamela Hamilton, who stepped in as Exhibit Project Manager, for their efforts on the Sanford Lab Homestake Visitor Center project.

On the science front, Mr. Headley reported the MAJORANA DEMONSTRATOR (MJD) was transitioning to a physics data collection mode. LUX has completed well over one-third of the 300-day data collection run currently underway.

The completion date for the Compact Accelerator System for Performing Astrophysical Research (CASPAR) and the Black Hills State University Underground Campus (BHUC) projects were set back four days due to curtailed operations necessitated by receiving 18 inches of rain over a two-week period.

Mr. Headley continued that the SDSTA team did a great job meeting the challenges presented by receiving this much moisture. He explained that areas where water might pond in upper levels of the underground are monitored to ensure safe working conditions for staff, researchers, and contractors working below. Operations were curtailed at the 4850L for the first time in two years. In response to a question from Chairperson Peterson, Mr. Headley advised inflow in the upper levels above the 3650L increased from an average of 250-300 GPM to 1000 GPM during the rain event. He advised a project slated to be funded by the Long Baseline Neutrino Facility (LBNF) would install piping across the 2000L from the Ross Shaft to No. 5 Shaft, which would increase the ability to handle large inflows.

The LBNF/Deep Underground Neutrino Experiment (LBNF/DUNE) work is moving forward. The LBNF project team is refreshing the Conceptual Design Review in preparation of the Critical Decision One (CD-1) Review with the DOE to be held July 14-16 at Fermilab.

The Ross Shaft refurbishment is 55 percent complete. The project remains on schedule for completion by May 2017.

Mr. Headley noted Communications Director Connie Walter and her team of volunteers have plans well underway for this year's event-packed Neutrino Day festivities on July 11.

Mr. Headley announced nine scholars were selected for this year's Davis-Bahcall program. The scholars' five-week experience began by working with researchers at Sanford Laboratory and continued with visits to 3M's Aberdeen plant, Minnesota's Soudan Underground Laboratory, the University of Wisconsin, and the Argonne National Laboratory, and Fermi National Accelerator Laboratory in Illinois. Later in the week, the scholars will travel to Gran Sasso National Laboratory in Italy. 3M funds

50 percent of the program. It was discussed that Sanford Lab needs to stay in closer contact with 3M regarding the program to encourage them to keep funding the program.

Mr. Headley introduced new Education and Outreach (E&O) Director June Apaza. He explained that Dr. Ben Sayler is still actively involved with the E&O program, while Ms. Apaza leads the E&O team efforts on a daily basis. Ms. Apaza advised that six teachers are assisting with the development of curriculum modules this summer. Two units for grades 3-5, grades 6-8, and grades 9-11 showcasing the science being conducted at the Sanford Lab will be completed later this year. The six curriculum units will be made available to schools statewide in a manner similar to how the Center for Advancement of Mathematics and Science Education (CAMSE) shares its curriculum. Mr. Headley noted distribution will ultimately extend beyond state borders. He continued that plans are underway to expand undergraduate efforts through interaction between the Sanford Lab, BHSU, and South Dakota School of Mines and Technology (SDSM&T).

Ms. Lebrun suggested generating a report which follows the Davis-Bahcall scholars as they pursue their education and career paths would be an excellent assessment tool and resource to gain monetary support for the program. Ms. Apaza advised that data following scholars for 4-5 years beyond their participation has been collected since the beginning of the program. Mr. Headley said the reports would be shared with the board.

Motion by Mr. Wheeler and second by Ms. Aprahamian to accept the Executive Director's report. Motion passed unanimously.

Ms. Lebrun advised that the South Dakota Research, Excellence: A Critical Hallmark (REACH) Committee governs research programs sponsored in South Dakota and coordinates the Experimental Program to Stimulate Competitive Research (EPSCoR) projects in South Dakota. She and fellow Committee members Dr. Heather Wilson and Mr. Headley attended the mid-June REACH Committee meeting held in Sioux Falls. Ms. Lebrun commented it is amazing how South Dakota research projects have matured to create jobs, generate knowledge, and achieve goals set over the past decade.

Chairperson Peterson thanked Ms. Lebrun, Dr. Wilson, and Mr. Headley for their involvement on the REACH Committee.

Mr. Headley noted Mr. Willhite would transport the board to the Visitor Center immediately following the meeting for a brief tour of the facility. The building dedication ceremony will begin at 11 AM.

ITEM 7. - CAPTIVE INSURANCE UPDATE

SDSTA Legal Counsel Mr. Tim Engel explained he is part of the group working to have the captives in place and providing coverage by September 1. The SDSTA's existing policies have been extended to September 1 with pro-rated premiums based on last year's rates. Overall, the captive insurance program is progressing quite well.

Mr. Engel reminded the board the Property Donation Agreement (PDA) requires SDSTA to create and to maintain \$75 million in general liability coverage. For the captive, the first \$1 million of coverage will be capitalized by repurposing \$2.5 million of the Indemnification Fund, with the next \$4 million provided through reinsurance purchased by the captive. The South Dakota Office of Risk Management (ORM) will assist with the purchase and administration of the umbrella policies comprising the final \$70 million. In addition to the general liability coverages, the captive will also provide directors and officers, employment practices, and errors and omissions liability coverages. The coverage provided by the captive will be on an occurrence basis. Cost to the SDSTA is anticipated to be comparable to existing premiums, with exception of a one-time \$24,000 charge to purchase nose coverage for the gap period between existing claims-made liability coverage and the captive's occurrence-based claim coverage. Ultimately the SDSTA will have better coverage and better control over cost and the claims process.

ITEM 8. - THIRD AMENDMENT TO PROPERTY DONATION AGREEMENT

Mr. Engel reported Homestake/Barrick has graciously agreed to repurposing \$2.5 million of a \$10 million indemnity fund required by the PDA to capitalize the captive in a Third Amendment to the PDA. Its companion document is the Notice of Amendment to Deed, which merely incorporates the changes from the three PDA amendments into the original 170-page Deed for the public record.

Mr. Engel explained the Legislative action which appropriated the \$10 million limited its use to the Indemnification Fund. It was therefore necessary to amend the appropriation legislation to allow repurposing the funds. The Governor has approved this amendment.

Mr. Engel asked for a motion approving both amendments as presented and authorizing the Executive Director or the Chairman to execute the documents. He noted the amendments are designed to be self-executing once the Division of Insurance issues the Certificate of Authority in September.

Motion by Mr. Wheeler and second by Mr. Christen to approve the amendment as presented and to authorize the Executive Director or Chairman to execute on behalf of SDSTA. Motion passed unanimously.

ITEM 9. – ANNUAL REVIEW OF POLICIES AND PROCEDURES

Mr. Headley discussed the updated, revised and retired policy recommendations; all had been reviewed by Mr. Engel.

The following policies were recommended for approval:

- Manual Contents Page (updated)
- ➤ Policy 1:1 Authorization (updated "SDSTA" only)
- Policy 1:2 Policies and Procedures (updated "SDSTA" only)
- Policy 3:8 Salary and Hourly Payroll Policy (incorporated policy 4:2:1 Business Hours)
- Policy 4:1 Personnel Benefits Policy (added "Policy" to title and updated)
- Policy 4:2 Outside Employment and Political Activity Policy (retitled and updated)
- Policy 4:3 Holidays Policy (added "Policy to title and updated "SDSTA" only)
- Policy 4:4 Leave Policy (added "Policy to title and updated "SDSTA" only)
- Policy 4:4:4 Years of Service and Longevity Pay Policy (retitled and incorporated policy 4:4:3)
- Policy 4:4:5 Military Policy (added "Policy" to title and reworded for clarity)
- ➤ Policy 4:5 Employment Policy (retitled and incorporated policy 4:5:1. Created new Employment Procedure 4:5A)
- Policy 4:6 Resignation Policy (retitled and updated)
- ➤ Policy 4:8 Workers Compensation Policy (added "Policy" to title, reformatted and reworded for clarity)
- ➤ Policy 4:12 Progressive Discipline and Termination Policy (reformatted and reworded for clarity)
- ➤ Policy 4:13 Inclement Weather Policy (added "Policy" to title, updated "SDSTA," reformatted, and reworded for clarity)
- Policy 4:14 Temporary Job Transfer (removed "Procedure" from title and added "Policy," and reworded for clarity)

The following policies were recommended for retirement:

- ➤ Policy 4:2:1 Business Hours
- ➤ Policy 4:4:1 Accumulated Vacation and Sick Leave (Section A moved to Policy 4:10)
- Policy 4:4:2 Vacation Leave while Traveling for Business (incorporated with Policy 4:4)
- ➤ Policy 4:4:3 Years of Service (incorporated with Policy 4:4:4)
- ➤ Policy 4:5:1 At-Will Employees (incorporated with Policy 4:5)
- Policy 4:7 Training (incorporated with Policy 4:1)

- ➤ Policy 4:9 Personal References (incorporated with Policy 4:6)
- Policy 4:10 Hiring Process (incorporated into new Procedure 4:5A)
- ▶ Policy 4:11 Moving Allowance (incorporated into new Procedure 4:5A)

The following procedure was presented for informational purposes only.

Procedure 4:5A Employment Procedures (new)

Mr. Headley asked if there were any questions or comments. There were none.

Motion by Mr. Dykhouse and second by Ms. Lebrun to approve the new, updated, and retired policies as presented. Motion passed unanimously.

Chairperson Peterson asked if there were any questions in regard to the Conflict of Interest Statement each board member is required to sign annually. There were none. The forms were signed and handed to User Support Office Manager Mandy Knight at the meeting.

ITEM 10. - EXECUTIVE SESSION

Motion by Mr. Wheeler and second by Ms. Lebrun to enter into executive session to discuss personnel matters and to consult with legal counsel concerning contractual matters. By roll call vote, the motion passed unanimously.

The board recessed at 9:29 AM for Executive Session and reconvened at 10:03 AM.

ITEM 11. – REPORT FROM EXECUTIVE SESSION

Chairperson Peterson reported that the board consulted with legal counsel concerning legal and contractual matters. No action was taken.

Motion by Dr. Aprahamian and second by Mr. Christen to approve the executive session report. Motion passed unanimously.

ITEM 12. – REPORT FROM NOMINATING COMMITTEE

Mr. Dykhouse reported he and Dr. Ani Aprahamian, comprising the Nominating Committee, propose the following slate of officers for the fiscal year beginning July 1, 2015.

Chairperson: Mr. Casey Peterson Vice-Chairperson: Mr. Dana Dykhouse Vice-Chairperson: Mr. Ron Wheeler Secretary Treasurer: Ms. Patricia Lebrun

ITEM 13. - ELECT OFFICERS

Chairperson Peterson asked if there were nominations from the floor. There were none and following the prescribed election procedure, a motion was made.

Motion by Mr. Christen and second by Mr. Wheeler to accept the report from the nominating committee and to elect the slate of officers as presented. Motion passed unanimously.

ITEM 14. – CONFIRM DATE AND TIME OF NEXT MEETING

Chairperson Peterson asked if anyone had concerns with the next board meeting scheduled for Thursday, September 17, 2015 at 9:00 A.M. (MT). There were none.

ITEM 15. – BOARD COMMENTS

Ms. Lebrun commented on the impressive progress made each time the group meets. She complimented Mr. Sanford, Barrick/Homestake, and all the interested parties for the flexibility exhibited in making the changes needed to move the Sanford Laboratory forward.

Mr. Dykhouse thanked Chairperson Peterson for serving another year as chair and for his efforts to ensure the board runs professionally and effectively.

Mr. Christen reiterated the sentiments expressed by Ms. Lebrun and Mr. Dykhouse. He voiced his support of Mr. Headley's dual role with SDSTA and Fermilab, and commented the SDSTA's future has never looked brighter.

Mr. Wheeler thanked Mr. Sanford for his flexibility in allowing adjustments to gift agreements, expressed his appreciation to Ms. McNamara for attending today, and complimented Mr. Headley for his leadership in building an excellent organization.

Mr. Headley agreed that the SDSTA's future looks amazing and recognized that its bright future is the direct result of the foundation built by this board, people like Mr. Sanford and Ms. McNamara, and the entire SDSTA team. He stated his appreciation to be a part of this amazing team and thanked everyone for their support.

Dr. Wilson expressed her excitement that physics and research were truly coming to the forefront in South Dakota. She noted first the board's support in co-sponsoring the recent Research Conference. Over 100 researchers from around the world attended and five South Dakota universities presented on panels featuring the world's best researchers. Secondly, she reported her gratitude for the dialogue between SDSM&T researchers and Fermilab representatives in South Dakota for the National Environment Policy Act (NEPA) review. There are exciting opportunities for chemical, civil, and electrical engineering research during construction of the LBNF facility, ranging from rock mechanics to pumping liquid argon a mile underground. Lastly, she proudly reported that SDSM&T has 21 doctoral Physics students and over 50 undergraduate students registered for the fall semester.

Dr. Aprahamian said she is honored to work with this board. She noted it has been an impressive six years and the future looks fabulous.

Mr. Engel agreed that the group has indeed come a long way in nine years, which is really a very short time to have progressed so far.

Chairperson Peterson reported that Mr. Tom Adam was unable to attend the meeting, but would be presented a certificate for his dedicated service on the board. He reminded members to extend their personal thanks to Mr. Adam.

Mr. Sanford expressed deep appreciation to the board for the time, effort, and dedication in keeping the project alive, working around obstacles, and continuing to move forward.

Mr. Peterson thanked Mr. Sanford for his comments and for his part in taking the Sanford Laboratory from a survival phase to a growth phase. He too noted the project has been blessed with support from Mr. Sanford, the State of South Dakota, and the entire SDSTA team.

ITEM 16. – ADJOURN

Chairperson Peterson asked if anyone had any other questions or comments, then called for a motion to adjourn.

Motion by Mr. Dykhouse and second by Mr. Christen to adjourn. Motion passed unanimously.

Meeting adjourned at 10:15 AM.

outh Dakota Community Foundation – Mr. Ron Wheeler	
ecommended Action: formational	

South Dakota Science and Technology Authority Board Meeting – September 17, 2015

Agenda Item: 05

Audit Committee Chairperson Ms. Pat Lebrun

Audit Committee Members:

Ms. Pat Lebrun, Audit Committee Chair

Mr. Paul Christen

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY AUDIT COMMITTEE CHARTER

STATEMENT OF MISSION

The mission of the South Dakota Science and Technology Authority (SDSTA) Audit Committee is to be the pro-active steward for oversight of the financial reporting and disclosure process for SDSTA, including the investigation of claimed breaches of ethics, theft, fraud, embezzlement and reports of whistle-blowers. Our responsibility is to the SDSTA Board of Directors to report independently on the results of the oversight so as to assist in maintaining and enhancing the quality of the financial reporting. The Audit Committee is committed to communication between and among directors, the external auditor and Chief Financial Officer (CFO).

A. The Audit Committee has the following responsibilities and duties:

1. Appointment

- Annually be appointed by the SDSTA Board of Directors at their annual meeting in June.
- At least one member will be deemed a "financial expert," as defined by applicable law and regulation.

2. Review

- Annually review and update this Charter.
- Annually determine the independence of Audit Committee members through a certification by the SDSTA Board of Director's Chairperson.
- Review the SDSTA's annual financial statements and any reports or other financial information submitted to or from any governmental body, or the public, including any certification, report, opinion or review rendered by the external auditor or the SDSTA CFO
- Review any report or memo or other communication from Federal and State regulators and reviewers, and attend as many entrance and exit conferences as possible.

3. External Auditors/CFO/Independent Counsel/Other Advisors

- The Audit Committee shall have the independent authority to engage any legal counsel or other advisors it deems necessary to carry out its duties.
- Periodically consult with the external auditor out of the presence of management about internal controls and the fullness and accuracy of the company's financial statements.
- Make the selection, retention, and review the performance of, the external auditor, considering independence and effectiveness and approve the fees paid to the external auditor as well as the proposed fee. On an annual basis, the Audit Committee should review and discuss with the external auditor all significant relationships the external auditor has with the company to determine the auditor's independence and consider the appropriateness of the non-audit services prior to their engagement.
- Periodically meet with the CFO on the results of exams, and be available to CFO for appropriate communications at any time they desire the meeting.

4. Financial Reporting Process

• In consultation with the external auditor, review the integrity of the SDSTA's financial reporting processes.



SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY AUDIT COMMITTEE CHARTER

- Consider the external auditor's judgments about the quality and appropriateness of the SDSTA's accounting principles, as applied in its financial reports and as promulgated by the Governmental Accounting Standards Board.
- Consider and forward to the SDSTA Board of Directors, if appropriate, recommendations
 for major changes to the SDSTA's auditing and accounting principles and practices as
 suggested by the external auditor, management or the CFO.
- Establish regular and separate systems of reporting to the Audit Committee by management and the external auditor regarding any significant judgments made in management's preparation of the financial statements and the Audit Committee's view of each as to appropriateness of such judgments.
- Following completion of the annual audit, review separately with management and the external auditor any significant difficulties encountered during the course of the audit, including any restrictions on the scope of work, or access to required information.
- Review and resolve any significant disagreement among management and the external auditor in connection with the preparation of the financial statements. Review in detail the passed audit adjustments and the materiality levels used by the external auditor, and the impact of Management's estimates used in the financial statement preparation.
- Review with the external auditor and management the extent to which changes or improvements in financial or accounting practices, as approved by the Audit Committee in prior reports or meetings, have been implemented.

5. Ethical and Legal Compliance

- Establish, review and update periodically a Conflict of Interest Policy and ensure that management has established a system to enforce this Policy.
- Review management's monitoring of compliance with the SDSTA's Conflict of Interest Policy, and verify that management has the proper review system in place to ensure that financial statements, reports, and other financial information disseminated to governmental organizations, and the public, satisfy legal requirements.
- Review with SDSTA's retained legal counsel any legal matter that could have a significant impact on the SDSTA's financial statements.
- Periodically review individual committee member education and obtain resources, seminars and materials to keep the level of member's education current.
- Perform any other activities consistent with this Charter, the SDSTA's By-Laws and governing law, as the Audit Committee or the SDSTA Board of Directors deems necessary or appropriate.

6. Reporting

In order to facilitate the proper execution of its duties and responsibilities, the Audit Committee shall conduct its reviews and investigations in a confidential manner. The Audit Committee shall report to the SDSTA Board the results of the Financial Reporting Process, consultations with External Auditors, the CFO or other Advisors, or any other issues they deem important for the SDSTA Board to meet its responsibilities. These reports shall include, but not be limited to, the results of the annual external audit or any internal audit on financial reports or compliance (including difficulties or disagreements encountered, if any, past

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY AUDIT COMMITTEE CHARTER

adjustments, materiality defined by the auditor, any legal matter having a material impact on the report, management letter comments, etc.), the integrity of the financial reporting system, the appropriateness of the accounting principles applied to the financial reports, the status of internal controls, any suggested change to any of the above systems the Audit Committee thinks should be made, any significant report or communication from any other matter that the Audit Committee deems critical information needed by the SDSTA Board. To the extent permitted by applicable law, the Audit Committee's reports to the Board of Directors shall be delivered in closed session.

The Audit Committee shall strive to provide the Board with the information it needs to manage the reporting and accounting for the SDSTA as well as utilize the reports to manage all of the other risks it faces. These reports will be made when information is received and available. The Annual Schedule below outlines some of the reporting dates anticipated.

7. Budget Process

The Audit Committee will meet with the CFO in March to establish the annual budget for the Audit Committee to cover costs for audit fees, legal fees, consulting fees, continuing education travel and costs and miscellaneous costs

B. Annual Schedule

The Audit Committee will meet at its discretion but the following is a guideline for business to be conducted during the year:

<u>December-January</u> – Meet with external auditors to discuss preliminary audit findings, letters to management, passed adjustments, materiality, management estimates, and quality and appropriateness of accounting principles.

<u>March-June</u> – Present audit findings, letter of comments and other appropriate information to the SDSTA's Board of Directors at SDSTA annual meeting. Meet to update issues on hiring other outside auditors for review, as deemed necessary, of such areas as EDP, compliance, etc.

<u>September</u> – Request proposal for external audit. Meet with CFO.

October/November/December – Meet with CFO to review any issues regarding the audit. Meet to engage external financial auditor on entrance conference. Review all SDSTA regulators' reports (State and/or Federal). Certify as to committee member's independence.

C. Limitations on the Committee's Role:

While the Audit Committee has the responsibilities and powers as stated above, it is not the Committee's duty to audit the SDSTA's financial statements or to determine that the SDSTA's financial statements are complete and accurate in accordance with generally accepted accounting principles (GAAP), as promulgated by the Governmental Accounting Standards Board. These are the responsibilities of management and the independent auditors.

South Dakota Science and Technology Authority Board Meeting – September 17, 2015

Financial Report – Mr. Mike Headley

Financial Report

6A. Financial Statements - Attached is the SDSTA Financial Summary as of August 31, 2015. (This is a duplicate of the summary found under Agenda Item #7 SDSTA August Monthly Report in the e-Board Packet.)

Agenda Item: 06

- 6B. Interest Letter on State-held Funds.
- 6C. Fixed Asset Listing.
- 6D. Fiscal Year 2014-2015 Per Diems Report.
- 6E. State of South Dakota, Bureau of Administration (BOA) Captive Grant Agreement, signed.

Recommended Action:

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DIVISION: ALL

BALANCE SHEET

ASSETS

	AS OF 08/31/15
CURRENT ASSETS	
First Interstate Checking	\$ 1,668,735.76
First Interstate Other	29,081.27
Total in Local Checking	 1,697,817.03
SD Treas: Indemnification	7,617,868.59
SD Treas: Insurance	0.01
SD Treas: Mine Closure	1,378,755.95
SD Treas: Operating	41,204.29
SD Treas: Sanford	1,212,764.30
SD Treas: Sanford Gift #2	3,106,530.44
SD Treas: SB196 Transfer	1,742,615.57
Total with SD Treasurer	15,099,739.15
Billed A/R	2,175,425.43
Unbilled A/R	41,656.30
Other A/R	304,134.14
Inventory - Supplies	2,616,992.22
Inventory - Warehouse	369,104.49
Other Current Assets	248,515.62
Total Current Assets	22,553,384.38
FIXED ASSETS	
Land, Underground & Other	12,398,635.03
Bldgs & Infrastructure	8,881,327.62
Improvements	64,569,774.83
Computer Equipment	451,472.54
Equipment & Fixtures	10,052,148.82
Accum Depr & Amort	(9,510,831.14)
Total Fixed Assets	86,842,527.70
OTHER ASSETS	
Work in Process	2,277,954.56
Equipment - Capital Lease	492,449.69
Pension Deferred Outflows	7,176,478.00
Captive Indemnification	2,500,000.00
Total Other Assets	12,446,882.25
TOTAL ACCETO	************
TOTAL ASSETS	\$ 121,842,794.33 ==========

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DIVISION: ALL

BALANCE SHEET

LIABILITIES & EQUITY

	AS OF 08/31/15
CURRENT LIABILITIES	
Accounts Payable	\$ 2,284,582.81
Other Payables	91,427.32
Total Accounts Payable	2,376,010.13
Accrued Payroll Liab	1,050,452.54
Total Current Liabilities	3,426,462.67
OTHER LIABILITIES	
LT Accrued EB/Lease	492,449.69
Pension Deferred Inflows	4,412,373.00
Total Other Liabilities	4,904,822.69
STOCKHOLDER'S EQUITY	
Restricted: Indemnificati	7,500,000.00
Restricted: Captive	2,500,000.00
Restricted: Sanford I.Lab	2,897,391.48
Restricted: Mine Closure	1,378,755.95
Restricted: Sanford Gift2	2,979,083.00
Restricted: Pension	2,045,761.00
Total Restricted Funds	19,300,991.43
Investment in Gen FA	86,923,527.70
Unrestricted Funds	7,286,989.84
Total Equity	113,511,508.97
FOTAL LIABILITIES & EQUITY	***************************************
TOTAL LIADILITIES & EQUITY	\$ 121,842,794.33 ========

ALL

STATEMENT OF INCOME

FOR THE PERIOD ENDING 08/31/15

		YR-TO-DATE
REVENUE		-
DOE Subcontracts	¢	2 260 622 72
State Revenue	\$	3,268,622.73
Contributions & Donations		14,751.57
		125,000.00
Checking Interest		19.25
Interest Income		20,454.50
TOTAL REVENUE		3,428,848.05
DIRECT COSTS		
Direct Labor		1,191,403.35
ERT Labor		4,517.64
Board of Directors		639.89
Contractual Svcs		1,163,953.85
Inventory		57,288.62
Supplies		120,011.65
Travel - Domestic		20,593.89
Travel - Foreign		26,585.95
Utilities		365,506.86
Other Direct Costs		42,738.15
Unallow/Unbill Costs		68,578.28
TOTAL DIRECT COSTS		3,061,818.13
INDIRECT COSTS		
Fringe Benefits		483,003.09
Overhead		527,028.48
TOTAL INDIRECT COSTS		1,010,031.57
GROSS PROFIT FROM OPERATIONS		(643,001.65)
OTUED WIGOUE		
OTHER INCOME Water Treatment		72,789.06
Miscellaneous Income		23,203.80
Other Operating Income		563.90
TOTAL OTHER INCOME		96,556.76
OTHER EXPENSES		
Loss(Gain) on Sale of FA		1,904.54
Reclass Incr Net Assets		(207,546.78)
TOTAL OTHER EXPENSES		(205,642.24)
NET INCOME/LOSS ()		(340,802.65)
D 05 0150		

DIVISION: ALL

COMPARATIVE BALANCE SHEET

ASSETS

		AS OF 08/31/15		AS OF 08/31/14		\$ CHANGE	% CHANGE
CURRENT ASSETS							
First Interstate Checking	\$	1,668,735.76	\$	648,692.05	\$	1,020,043.71	157.25%
First Interstate Other	•	29,081.27	Ψ	531,529.71	Ψ	(502,448.44)	-94.53%
Total in Local Checking		1,697,817.03		1,180,221.76		517,595.27	43.86%
SD Treas: Indemnification		7,617,868.59		10,134,549.12		(2,516,680.53)	-24.83%
SD Treas: Insurance		0.01		3.71		(3.70)	-99.73%
SD Treas: Mine Closure		1,378,755.95		1,367,000.31		11,755.64	0.86%
SD Treas: Operating		41,204.29		5,535.53		35,668.76	644.36%
SD Treas: Sanford		1,212,764.30		2,896,023.19		(1,683,258.89)	-58.12%
SD Treas: Sanford Gift #2		3,106,530.44		13,387,210.27			
SD Treas: SB196 Transfer		1,742,615.57				(10,280,679.83)	-76.79%
3D Treas. 3D 190 Transier		1,742,013.37		3.11		1,742,612.46	56032554.98%
Total with SD Treasurer		15,099,739.15		27,790,325.24		(12,690,586.09)	-45.67%
Billed A/R		2,175,425.43		1,337,586.53		837,838.90	62.64%
Unbilled A/R		41,656.30		25,418.65		16,237.65	63.88%
Other A/R		304,134.14		137,354.16		166,779.98	121.42%
Inventory - Supplies		2,616,992.22		2,575,749.36		41,242.86	1.60%
Inventory - Warehouse		369,104.49		370,026.47		(921.98)	-0.25%
Other Current Assets		248,515.62		458,994.17		(210,478.55)	-45.86%
Total Current Assets		22,553,384.38		33,875,676.34		(11,322,291.96)	-33.42%
FIXED ASSETS							
Land, Underground & Other		12,398,635.03		12,353,375.03		45,260.00	0.37%
Bldgs & Infrastructure		8,881,327.62		8,881,327.62		40,200.00	0.00%
Improvements		64,569,774.83		49,299,966.62		15,269,808.21	30.97%
Computer Equipment		451,472.54		362,464.95		89,007.59	24.56%
Equipment & Fixtures		10,052,148.82		9,234,741.03		817,407.79	8.85%
Accum Depr & Amort		(9,510,831.14)		(7,580,677.46)		(1,930,153.68)	25.46%
Total Fixed Assets		86,842,527.70		72,551,197.79		14,291,329.91	19.70%
OTHER ASSETS							
Work in Process		2,277,954.56		1,237,859.50		1,040,095.06	84.02%
Equipment - Capital Lease		492,449.69		607,583.98		(115,134.29)	-18.95%
Pension Deferred Outflows		7,176,478.00		007,000.90		7,176,478.00	100.00%
Captive Indemnification		2,500,000.00		-		2,500,000.00	100.00%
Total Other Assets		12,446,882.25		1,845,443.48		10,601,438.77	574.47%
		=========		=======================================	i de	==========	==========
TOTAL ASSETS	\$	121,842,794.33	\$	108,272,317.61	\$	13,570,476.72	12.53%
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REPORT DATE 09/09/15

SOUTH DAKOTA SCIENCE & TECHNOLOGY

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DIVISION: ALL

COMPARATIVE BALANCE SHEET

LIABILITIES & EQUITY

	AS OF 08/31/15	AS OF 08/31/14		\$ CHANGE	% CHANGE
CURRENT LIABILITIES					
Accounts Payable	\$ 2,284,582.81	\$ 1,246,748.68	\$	1,037,834.13	83.24%
Other Payables	91,427.32	16,247.58		75,179.74	462.71%
Total Accounts Payable	2,376,010.13	1,262,996.26		1,113,013.87	88.12%
Accrued Payroll Liab	1,050,452.54	940,812.27		109,640.27	11.65%
Total Current Liabilities	3,426,462.67	2,203,808.53		1,222,654.14	55.48%
OTHER LIABILITIES					
LT Accrued EB/Lease	492,449.69	607,583.98		(115,134.29)	-18.95%
Pension Deferred Inflows	4,412,373.00	477		4,412,373.00	100.00%
Total Other Liabilities	4,904,822.69	607,583.98		4,297,238.71	707.27%
TOTAL LIABILITIES	8,331,285.36	2,811,392.51		5,519,892.85	196.34%
STOCKHOLDER'S EQUITY					
Restricted: Indemnificati	7,500,000.00	10,000,000.00		(2,500,000.00)	-25.00%
Restricted: Captive	2,500,000.00	•		2,500,000.00	100.00%
Restricted: Sanford I.Lab	2,897,391.48	9,262,521.00		(6,365,129.52)	-68.72%
Restricted: Mine Closure	1,378,755.95	1,367,000.31		11,755.64	0.86%
Restricted: Sanford Gift2	2,979,083.00	5,651,945.00		(2,672,862.00)	-47.29%
Restricted: Pension	2,045,761.00	-		2,045,761.00	100.00%
Total Restricted Funds	19,300,991.43	26,281,466.31		(6,980,474.88)	-26.56%
Investment in Gen FA	86,923,527.70	72,551,197.79		14,372,329.91	19.81%
Unrestricted Funds	7,286,989.84	6,628,261.00		658,728.84	9.94%
TOTAL EQUITY	113,511,508.97	105,460,925.10		8,050,583.87	7.63%
			==		
TOTAL LIABILITIES & EQUITY	\$ 121,842,794.33	\$ 108,272,317.61	\$	13,570,476.72	12.53%

COMPARATIVE STATEMENT OF INCOME

FOR THE PERIOD ENDING 08/31/15

		YEAR		PRIOR YEAR		
<u> </u>		TO DATE		TO DATE	\$ CHANGE	% CHANGE
REVENUE	CE:	122001922			2 14 2 2 2 3 4	
DOE Subcontracts	\$	3,268,622.73	\$	2,351,972.39 \$	916,650.34	38.97%
State Revenue		14,751.57		411.49	14,340.08	3484.92%
Contributions & Donations		125,000.00		500,000.00	(375,000.00)	-75.00%
Checking Interest		19.25		11.36	7.89	69.45%
Interest Income		20,454.50		34,658.99	(14,204.49)	-40.98%
TOTAL REVENUE		3,428,848.05		2,887,054.23	541,793.82	18.77%
DIRECT COSTS						
Direct Labor		1,191,403.35		1,218,376.07	(26,972.72)	-2.21%
ERT Labor		4,517.64		4,765.50	(247.86)	-5.20%
Board of Directors		639.89		34.52	605.37	1753.68%
Contractual Svcs		1,163,953.85		350,179.27	813,774.58	232.39%
Emergency Resp				189.64	(189.64)	-100.00%
Inventory		57,288.62		35,407.26	21,881.36	61.80%
Supplies		120,011.65		69,215.86	50,795.79	73.39%
Travel - Domestic		20,593.89		12,369.68	8,224.21	66.49%
Travel - Foreign		26,585.95		21,104.19	5,481.76	25.97%
Utilities		365,506.86		276,631.94	88,874.92	32.13%
Other Direct Costs		42,738.15		43,412.37	(674.22)	-1.55%
Unallow/Unbill Costs		68,578.28		68,441.29	136.99	0.20%
TOTAL DIRECT COSTS		3,061,818.13		2,100,127.59	961,690.54	45.79%
INDIRECT COSTS						
Fringe Benefits		483,003.09		447,150.58	35,852.51	0.000/
Overhead		527,028.48		554,870.95		8.02%
Overneau		527,020.40		554,670.95	(27,842.47)	-5.02%
TOTAL INDIRECT COSTS		1,010,031.57		1,002,021.53	8,010.04	0.80%
GROSS PROFIT		(643,001.65)		(215,094.89)	(427,906.76)	198.94%
OTHER INCOME						
Water Treatment		72,789.06		59,414.82	13,374.24	22.51%
Miscellaneous Income		23,203.80		11,797.40	11,406.40	96.69%
Other Operating Income		563.90		-	563.90	100.00%
TOTAL OTHER INCOME		96,556.76		71,212.22	25,344.54	35.59%
OTHER EXPENSES						
Loss(Gain) on Sale of FA		1,904.54		200	1,904.54	100.00%
Reclass Incr Net Assets		(207,546.78)		(244,055.66)	36,508.88	-14.96%
TOTAL OTHER EXPENSES		(205,642.24)		(244,055.66)	38,413.42	-15.74%
		==========		======		
NET INCOME/LOSS ()	•		œ		(440.075.04)	440.040
NET INCOME/LOSS ()	\$	(340,802.65)	\$	100,172.99 \$	(440,975.64)	-440.21%

South Dakota Science & Technology Authority Available Cash 8/31/2015

Cash Total Checking/Savings	\$ 1,697,817.00
Cash With State Treasurer	\$ 15,099,739.00
Total Cash	\$ 16,797,556.00
Less: Restricted Funds Indemnification & Mine Closure	\$ (8,878,756.00)
Total Cash (Not Restricted)	\$ 7,918,800.00
Less: Total Liabilities w/out Pension Def. Inflows	\$ (3,918,912.00)
Available Cash	\$ 3,999,888.00

SDSTA Operating Budget Summary FY2016 Actual vs Budget Aug. 2015 & YTD

	\$ Over/Under				\$ Over/Under					
	August 2015	Budget	Budget	% of Budget	Actual YTD	YTD Budget	Budget	% of Budget	% Remaining	
SDSTA (Authority) Direct Charges									100%	
Board of Directors	\$18.078.00	\$19,517.00	\$1,439.00	92.63%	\$36,357.00	\$39,034.00	\$2,677.00	93.14%	6.86%	
Executive Office	\$16,078.00	\$15,576.00	-\$602.00	103.87%	\$26,469.00	\$31,622.00	\$5,153.00		16.30%	
		\$15,871.00	\$4,982.00	68.61%	\$20,409.00	\$33,080.00	\$11,529.00		34.85%	
Communications	\$10,889.00 -\$215.00	\$0.00	\$215.00	100.0%	\$23,986.00	\$25,749.00	\$1,763.00		6.85%	
Science Center E & O						\$746.00	\$649.00		87.00%	
Science Liaison Sanf.L.Visitor C. (Director)	-\$900.00 \$6,629.00	\$373.00 \$6,131.00	\$1,273.00 -\$498.00	-241.29% 108.12%	\$97.00 \$10,607.00	\$12,846.00	\$2,239.00	100.00%	0.00%	
Subtotal	\$50,659.00	\$57,468.00	\$6,809.00	88.15%	\$119,067.00	\$143,077.00	\$24,010.00	83.22%	16.78%	
Federal/State Funding - Direct Charges										
Fermi P.O.#618228 Staff Services	\$54,266.00	\$29,195.00	-\$25,071.00	185.87%	\$85,261.00	\$61,168.00	-\$24,093.00	139.39%	-39.39%	
Fermi P.O.#618741 Excav.Des.	\$216,156.00	\$385,945.00	\$169,789.00	56.01%	\$216,156.00	\$771,890.00	\$555,734.00		72.00%	
Fermi P.O.#620223 Building/Infra.	\$554,942.00	\$758,226.00	\$203,284.00	73.19%	\$554,942.00	\$1,516,452.00	\$961,510.00		63.41%	
Fermi P.O.#622034 WasteRockSt.	\$5,525.00	\$15,700.00	\$10,175.00	35.19%	\$14,593.00	\$46,800.00	\$32,207.00		68.82%	
LBNL LUX C#6973786	\$11,038.00	\$13,350.00	\$2,312.00	82.68%	\$20,679.00	\$29,133.00	\$8,454.00		29.02%	
LBNL Operations C#6994297	\$951,012.00	\$1,089,805.00	\$138,793.00	87.26%	\$1,580,239.00	\$1,820,195.00	\$239,956.00	86.82%	13.18%	
LBNL LUX/Zeplin C#7093667	\$13,436.00	\$14,322.00	\$886.00	93.81%	\$21,229.00	\$29,764.00	\$8,535.00		28.68%	
MJD (Majorana) # 5-4473	\$1,869.00	\$2,000.00	\$131.00	93.45%	\$3,909.00	\$4,000.00	\$91.00	97.73%	2.28%	
CUBED - USD	\$11.00	\$500.00	\$489.00	2.2%	\$730.00	\$1,000.00	\$270.00	73.00%	27.00%	
Sanf.Sci.Ed.Center - GOED Funded	\$78,857.00	\$25,000.00	-\$53,857.00	315.43%	\$78,857.00	\$50,000.00	-\$28,857.00	157.71%	-57.71%	
U. of Minn. DUGL#A003778902	\$0.00	\$0.00	\$0.00	0.0%	\$0.00	\$1,000.00	\$1,000.00	0.00%	100.00%	
* Xilinx, Inc. P.O.#729923	\$203.00	\$570.00	\$367.00	35.61%	\$405.00	\$1,140.00	\$735.00	35.53%	64.47%	
Subtotal	\$1,887,315.00	\$2,334,613.00	\$447,298.00	80.84%	\$2,577,000.00	\$4,332,542.00	\$1,755,542.00	59.48%	40.52%	
Indirect Expenses										
Indirect Charges Personnel	\$87,247.00	\$89,145.00	\$1,898.00	97.87%	\$180,203.00	\$182,238.00	\$2,035.00	98.88%	1.12%	
Indirect Charges Other	\$187,706.00	\$267,435.00	\$79,729.00	70.19%	\$394,154.00	\$432,934.00	\$38,780.00	91.04%	8.96%	
Subtotal	\$274,953.00	\$356,580.00	\$81,627.00	77.11%	\$574,357.00	\$615,172.00	\$40,815.00	93.37%	6.63%	
Totals	\$2,212,927.00	\$2,748,661.00	\$535,734.00	80.51%	\$3,270,424.00	\$5,090,791.00	\$1,820,367.00	64.24%	35.76%	

^{*} Private Corporation (Commercial Group)

SDSTA CAPEX Budget Summary FY15/16 Actual vs Budget August 2015 & YTD

<u>Budget Area</u>	Actual Month	FY2015 Monthly Budget	\$ Over/Under Budget	% of Budget	Actual YTD	FY2015 YTD Budget	\$ Over/Under Budget	% of Budget	% Remaining
									100.00%
Operational CAPEX	\$ 1,194,051.30	\$ 1,231,625.00	\$ 37,573.70	96.95%	\$ 2,631,615.02	\$ 12,215,257.00	\$ 9,583,641.98	21.54%	78.46%
TOTAL CAPEX	\$ 1,194,051.30	\$ 1,231,625.00	\$ 37,573.70	96.95%	\$ 2,631,615.02	\$ 12,215,257.00	\$ 9,583,641.98	21.54%	78.46%

SD Science & Technology Authority Operational CAPEX Budget Monthly Actual vs Budget

Project #	Project Description	Aug. 2015			Budget	\$ Over/UnderBudget		% of Budget
CAP2012-27	Ross Shaft Furnishings Repl.M&S	\$	189,417.90	\$	256,990.00	\$	67,572.10	73.71%
CAP2012-28	Work Decks	\$	577.97	\$	1,000.00	\$	422.03	57.80%
CAP2012-32	SDSTA Personnel		170,778.92	\$	203,410.00	\$	32,631.08	83.96%
CAP2014-01	1 Sanford Visitor Center Design & Construction		80,470.28	\$	100,000.00	\$	19,529.72	80.47%
CAP2014-05	2014-05 CASPAR Experiment Development			\$	50,225.00	\$	50,225.00	0.00%
CAP2014-06	BHSU Jonas Science Building Renovation	\$	320,942.64	\$	250,000.00	\$	(70,942.64)	128.38%
CAP2014-09	2014-09 CASPAR Facility Development		158,909.51	\$	200,000.00	\$	41,090.49	79.45%
CAP2014-11	P2014-11 BHSU Facility Development		149,357.44	\$	70,000.00	\$	(79,357.44)	213.37%
CAP2016-01	Sanford Visitor Center Exhibit Davis Tribute	\$	65,368.59	\$	80,000.00	\$	14,631.41	81.71%
CAP2016-02	LZ Surface & Facility Upgrades	\$	58,228.05	\$	20,000.00	\$	(38,228.05)	291.14%
CAP2016-03	LZ Xenon Gas	\$		\$	-	\$	•	0.00%
Monthly Totals		\$	1,194,051.30	\$	1,231,625.00	\$	37,573.70	96.95%

SD Science & Technology Authority Operational CAPEX Budget YTD FY2016 Actual vs Budget

Project #	Project Description	August YTD	F	Y2016 Budget	\$ O	ver/UnderBudget	% of Budget	% Remaining
								100%
CAP2012-27	Ross Shaft Furnishings Repl.M&S	\$600,185.63	\$	3,212,394.00	\$	2,612,208.37	18.68%	81.32%
CAP2012-28	Work Decks	\$724.22	\$	34,577.00	\$	33,852.78	2.09%	97.91%
CAP2012-32	SDSTA Personnel	\$285,255.93	\$	2,399,004.00	\$	2,113,748.07	11.89%	88.11%
CAP2014-01	Sanford Visitor Center Design & Construction	\$150,284.25	\$	337,017.00	\$	186,732.75	44.59%	55.41%
CAP2014-05	CASPAR Experiment Development	\$0.00	\$	301,347.00	\$	301,347.00	0.00%	100.00%
CAP2014-06	BHSU Jonas Science Building Renovation	\$411,789.64	\$	1,116,209.00	\$	704,419.36	36.89%	63.11%
CAP2014-09	CASPAR Facility Development	\$745,150.58	\$	959,709.00	\$	214,558.42	77.64%	22.36%
CAP2014-11	BHSU Facility Development	\$304,684.13	\$	275,000.00	\$	(29,684.13)	110.79%	-10.79%
CAP2016-01	Sanford Visitor Center Exhibit Davis Tribute	\$65,368.59	\$	80,000.00	\$	14,631.41	81.71%	18.29%
CAP2016-02	LZ Surface Facility Upgrades	\$68,172.05	\$	1,500,000.00	\$	1,431,827.95	4.54%	95.46%
CAP2016-03	LZ Xenon Gas	\$0.00	\$	2,000,000.00	\$	2,000,000.00	0.00%	100.00%
	Totals	\$2,631,615.02	\$	12,215,257.00	\$	9,583,641.98	21.54%	78.46%

South Dakota Science and Technology Authority Board Meeting – September 17, 2015 Agenda Item: 06B Financial Report Continuation – Mr. Mike Headley 6B. Attached is the interest letter on state-held funds.

Recommended Action:

Informational



SOUTH DAKOTA INVESTMENT COUNCIL

4009 West 49th Street, Suite 300 Sioux Falls, SD 57106-3784 USA Phone: (605) 362-2820

September 1, 2015

Interest Proration Participating Agencies:

You recently received your 2015 interest proration voucher this week by e-mail. This represents interest on each agency fund's average balance for fiscal year 2015 as determined by SDCL 4-5-30. The Cash Flow Fund received \$18,200,556.24 of interest and net gains for the fiscal year on an average balance of \$1.342 billion. The rate (net of fees) for fiscal year 2015, payable in fiscal year 2016, is 1.25%.

Due to the decline in short-term interest rates and maturities of older, higher-rate securities, it is likely that the prorated interest rate for next year will be lower. Our best estimate for fiscal year 2016, payable in fiscal year 2017, is .90%.

If you have any questions regarding the calculation, please call Darcy McGuigan at the Bureau of Finance and Management or Sherry Nelson at the South Dakota Investment Council.

Sincerely,
Matthew-L. Clark

Matthew L. Clark

State Investment Officer

MLC/szn Enclosure

South Dakota Science and Technology Authority Board Meeting – September 17, 2015 Agenda Item: 06C Financial Report Continuation – Mr. Mike Headley 6C. Attached is the Fixed Asset Listing.

Recommended Action:

Ex Cathology Anthony Open Cathology Open Catholo	Vest to Date 7/1/2014 through 6/30/2015	\$100/0015	2	Cost of Fixed As	Assets		AC	Accumulated Denreciation	nreciation		
September Reginning Additions Retired Enginning TYD 67902bl Retired cc Chey Cicker Track 7132007 7132007 9,850 00 9,850 00 9,679 00 7,002.42 1,170 00 8,84457 1,570 00 Chey Cicker Track 7152008 7,152008 7,152008 7,152008 7,152008 1,170 00 1,580 17 1,170 00 8,84457 1,520 00 cled St St 7,152008 7,152008 7,152009 2,152009 1,170 00 1,	000 - SD Science & Technology	Authority	3	21 1	Socio		1	Camaiaica	- Discolation		
Closey Cube Track Ti132001 9,8854.0 0,880.00 0,8864.57 (8,864.57) Closey Cube Track Ti132008 1,132008 1,132008 1,132008 1,1300.0 1,1300.0 Fond Florid Palo Gal-Lides 1,115,000 1,1300.0 1,1300.0 1,1300.0 1,1300.0 1,1300.0 Fond Florid Palo Gal-Lides 1,116,000 1,1300.0 1,1300.0 1,1300.0 1,1350.0 1,1300.0 1,1350.0 Chey Stall Lides 1,116,000 2,117,000 6,618.17 1,229.8 8,434.2 1,529.0 1,1350.0 Chey Stall Lides 811,1200 6,618.17 8,618.17 4,184.0 851.00 1,145.0 Chey Stall Lides 811,1200 8,112.0 1,145.0 1,145.0 1,145.0 1,145.0 Chey Stall Lides 414,1200 4,142.0 4,142.0 4,142.0 8,341.0 1,145.0 1,145.0 Chey Stall Lides 4,142.0 4,142.0 4,142.0 4,142.0 8,341.0 1,145.0 8,341.0 1,145.0 1,145.0 1,144.0 1,14	Sys ID Description		N bict	Beginning	Additions	Retired	Ending		TD 6/30/2015	Retired	Ending
Cheay Cube Trusk 7112007 7112007 7112007 7112007 7112007 7112007 884457 88457 (88457) Cheay Cube Trusk 7112009 71122008 1180017 882417 117000 88457 117000 Cheay Nath Mill 7112009 7112208 1180017 882417 112000 117000 Cheek S 2000 2112009 81112009 81112009 8111200 8111200 8111200 8111200 Dage S 2000 WAlki 81112009 81112009 8111200 8111200 8111200 8111200 8111200 8111200 8111100 Cheey Sidhurban W 81112009 8111200 8111200 8111200 8111200 8111100 8111100 8111100 81111100 81111100 81111100 81111100 81111100 81111100 81111100 81111100 81111100 81111100 81111100 8111100 8111100 8111100 8111100 8111100 8111100 8111100 8111100 8111100 8111100 8111100 8111100	110 - Automobiles										
1152008 7152008 7152008 7102200 117000 117000 1162009 7162009 7102242 928197 117000 1162009 7102200 2152000 12329.88 8.453.42 935.00 2152009 2152000 12329.88 8.453.42 1580.0 11 8112009 81112009 810671 1.320.83 8.453.40 1580.0 8112009 81112009 810671 1.320.83 8.453.40 1.1100 8112009 81112009 8.80671 1.350.83 1.41400 8.5100 8112009 81112009 8.80671 1.41400 8.81100 1.11100 8112009 81112009 8.81100 1.145.00 1.145.00 8112000 8112009 8.82100 1.11100 1.145.00 8112000 8112000 8.82100 1.11100 1.11100 8112000 4142006 415.3616 421.5616 421.5616 421.5616 421.5616 421.5616 421.5616 421.5616 421.5	16 1998 Chevy Cube Truc			9,850.00		(9,850.00)	0.00	8,864.57		(8,864.57)	0.00
Fod F350 63-1658 1/162009 1/182009	77 2003 Chevy Astro AW			9,079.90			9,079.90	7,002.42	1,170.00		8,172.42
Fond F15 Ovg With Ith Programs 21/2009	78 2003 Ford F250 63-16.			11,890.17			11,890.17	8,281.97	1,529.00		9,810.97
Dodge W/Ndarianean 21252009 21252009 21252009 21252009 2125200 2112000 4112000<	79 2000 Ford F150 V8 W/		40.4	7,273.42			7,273.42	4,986.72	935.00		5,921.72
Checy Suburban W 81112009 81112009 641817 4,18400 85100 Dodge 2500 W/Mals 81122009 8,906.71 1,800.71 8,600.00 1,145.00 Checy G3500 W/Mals 81122009 8,906.71 1,800.00 1,145.00 1,145.00 Checy G3500 W/Mals 8112009 8102014 1,300.00 1,800.00 1,800.00 1,111.00 Checy G3500 W/Mals 814200 4,442006 <td>81 2001 Dodge W/Mainte</td> <td></td> <td></td> <td>12,329.88</td> <td></td> <td></td> <td>12,329.88</td> <td>8,453.42</td> <td>1,585.00</td> <td></td> <td>10,038.42</td>	81 2001 Dodge W/Mainte			12,329.88			12,329.88	8,453.42	1,585.00		10,038.42
Dodge 2500 W/Mail 8172009 8192009 8192009 8192000 890671 5,630.00 1,145.00 Find Explorer Sport 6442010 642010 13.306.83 16,900.00 16,900.00 1,110.00 Check Capital 98.2014 98.2014 18,200.00 16,900.00 16,900.00 1,111.00 Check Capital 98.2014 14,42006 41,42006	347 1999 Chevy Suburban			6,618.17			6,618.17	4,184.00	851.00		5,035.00
Ford Explorer Sport 64/2010 64/2010 13,306.83 6,87.00 1,711.00 Cheey C3550 Van Gasson 9/8.2014 9/8.2014 9/8.2014 9/8.2014 1,711.00 1,711.00 Cheey C3550 Van Gasson 41/14.2006 41/4.2006 41/4.2006 41/4.2006 436,796.20 80.063.72 8,736.00 1,811.00 Head Frame & Crus 41/4.2006 41/4.2006 41/4.2006 41/4.2006 41/4.2006 41/4.2006 41/4.2006 8,731.00 8,731.00 8,81.00 10.737.00	348 2001 Dodge 2500 W/N			8,906.71			8,906.71	5,630.00	1,145.00		6,775.00
Cheay G3500 Van 4)8(20)4 9(8/20)4 1(6,900.00 16,900.00 1811.00 Hoist Roam 41/42/2006	349 2004 Ford Explorer Sp			13,306.83			13,306.83	6,987.00	1,711.00		8,698.00
Hoist Roam 4142006 4142006 41425168 16900.00 85.305.08 85.305.0 10.737.00 (8.864.57) 5 4 1442006 41442006 688759 0 1260237 1 1260237 1 13600 1 1260231 13500 1 142000 1 1442006 41442006 688759 0 1260237 1 1260231 13500 1 142000 1 1442006 41442006 688759 0 1260237 1 124024 1 13500 1 1442006 41442006 688759 0 1260237 1 124024 1 13500 1 1442006 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 688771 1 1240206 41442006 6880771 1 1240206 41442006 6880771 1 1240206 41442006 6880771 1 1240206 41442006 6880771 1 1240206 41442006 6880771 1 1240206 41442006 6880771 1 1240206 41442006 6880771 1 1240206 41442006 6880771 1 1240206 41442006 6880771 1 1240206 41442006 6880771 1 1240206 1 1260231 1 12500 1 1240206 1 125000 1 1220446 1 129000 1 120000 1 1200000 1 120000000000	570 2009 Chevy G3500 Va				16,900.00		16,900.00		1,811.00		1,811.00
Host Room 41/42006			L	79,255.08	16,900.00	(9,850.00)	86,305.08	54,390.10	10,737.00	(8,864.57)	56,262.53
Head Frame & Crus 4/142006 <td>do - Building b 10 Ross Hoist Room</td> <td>4/14/2006</td> <td></td> <td>436,796.20</td> <td></td> <td></td> <td>436,796.20</td> <td>80,063.72</td> <td>8,736.00</td> <td></td> <td>88,799.72</td>	do - Building b 10 Ross Hoist Room	4/14/2006		436,796.20			436,796.20	80,063.72	8,736.00		88,799.72
Head Frame & Cru 4/14/2006	the second of th			421,551.65			421,551.65	77,268.90	8,431.00		85,699.90
Office - Admin Bld 41412006 <td>9 19 Yates Head Frame & C</td> <td></td> <td></td> <td>496,154.18</td> <td></td> <td></td> <td>496,154.18</td> <td>90,943.06</td> <td>9,923.00</td> <td></td> <td>100,866.06</td>	9 19 Yates Head Frame & C			496,154.18			496,154.18	90,943.06	9,923.00		100,866.06
Holst MG Set Root 4/14/2006 4/14/2006 797,826.88 146,241.43 15,957.00 10 Substation Building 4/14/2006 4/14/2006 4/14/2006 4/14/2006 4/14/2006 4/14/2006 4/14/2006 15,615.43 15,615.43 15,957.00 10 Boiler 4/14/2006 4/14/2006 4/14/2006 6,785.02 23,236.99 4,260.57 465.00 10 Dry 4/14/2006 4/14/2006 4/14/2006 4/14/2006 50,830.92 50,830.92 2,620.327 2,895.00 2 Dry 4/14/2006 4/14/2006 4/14/2006 4/14/2006 51,988.23 50,830.92 9,319.05 1,017.00 1 Air Tanks 4/14/2006 4/14/2006 6,375.90 7,60.79 1,242.14 1,350.00 1 Air Tanks 4/14/2006 4/14/2006 6,807.71 7,091.37 1,240.06 6,240.40 1,240.06 1,240.00 1,240.00 1,240.00 1,240.00 1,240.00 1,240.00 1,240.00 1,240.00 1,240.00 1,240	24 Mine Office - Admin I			461,316.99			461,316.99	84,556.23	9,226.00		93,782.23
4/14/2006 4/14/2006 13,615.43 13,615.43 2,494.12 272.00 4/14/2006 4/14/2006 6,785.02 4,260.57 465.00 4/14/2006 4/14/2006 6,783.02 1,245.17 136.00 4/14/2006 4/14/2006 50,830.92 9,319.05 1,017.00 4/14/2006 4/14/2006 88,757.90 12,602.31 1,375.00 4/14/2006 4/14/2006 6,807.71 7,60.79 1,421.45 1,55.00 4/14/2006 4/14/2006 6,807.71 6,807.71 1,247.06 1,247.06 136.00 4/14/2006 4/14/2006 6,240.40 6,240.40 6,240.40 1,247.06 136.00 4/14/2006 4/14/2006 6,240.40 6,240.40 1,247.06 136.00 4/14/2006 4/14/2006 6,240.40 1,224.46 1,395.11 125.00 4/14/2006 4/14/2006 1,414/2006 2,240.40 1,444.20 1,444.20 4/14/2006 4/14/2006 1,414/2006 2,60.66.84 2,844.00	25 Yates Hoist/MG Set Ro			797,826.88			797,826.88	146,241.43	15,957.00		162,198.43
4/14/2006 4/14/2006 23.336.99 4.260.57 465.00 4/14/2006 4/14/2006 6,785.02 1,245.17 136.00 4/14/2006 4/14/2006 142,961.96 26,203.27 2,859.00 2 4/14/2006 4/14/2006 51,988.23 51,988.23 9,319.05 1,017.00 1 4/14/2006 4/14/2006 68,757.90 51,988.23 9,530.45 1,040.00 1 4/14/2006 4/14/2006 68,757.90 7,091.37 1,200.39 1,247.06 142.00 4/14/2006 4/14/2006 6,807.71 1,247.06 136.00 136.00 4/14/2006 4/14/2006 6,240.40 7,624.4 1,144.81 125.00 4/14/2006 4/14/2006 6,240.40 7,624.64 1,144.81 125.00 4/14/2006 4/14/2006 6,240.40 7,624.64 1,144.81 135.00 4/14/2006 4/14/2006 14/14/2006 2,606.84 2,844.00 2,844.00 4/14/2006 14/14/2006 3,841.55	26 Ross Substation Buildi			13,615.43			13,615.43	2,494.12	272.00		2,766.12
4/14/2006 6,785.02 6,785.02 1,245.17 136.00 4/14/2006 4/14/2006 142,961.96 26,203.27 2,839.00 2 4/14/2006 4/14/2006 50,830.92 9,319.05 1,017.00 1 4/14/2006 4/14/2006 68,757.90 68,757.90 12,602.31 1,375.00 1 4/14/2006 4/14/2006 6,807.71 7,60.79 1,421.45 155.00 1 4/14/2006 4/14/2006 6,807.71 6,807.71 1,241.45 136.00 1 4/14/2006 4/14/2006 6,807.71 1,241.45 136.00 1 4/14/2006 4/14/2006 6,807.71 1,241.45 136.00 1 4/14/2006 4/14/2006 6,240.40 7,624.64 1,144.81 125.00 4/14/2006 4/14/2006 14,12,224.46 1,250.04 1,144.81 152.00 4/14/2006 4/14/2006 14,12,224.46 1,244.41 1,395.11 152.00 4/14/2006 4/14/2006 14,14,2006	27 Ross Boiler	4/14/2006		23,236.99			23,236.99	4,260.57	465.00		4,725.57
4/14/2006 4/14/2006 142,961.96 142,961.96 26,203.27 2,859.00 2 4/14/2006 4/14/2006 50,830.92 50,830.92 9,319.05 1,017.00 1 4/14/2006 4/14/2006 68,757.90 12,602.31 1,375.00 1 4/14/2006 4/14/2006 7,091.37 7,091.37 1,421.45 155.00 4/14/2006 4/14/2006 6,807.71 6,807.71 1,247.06 136.00 4/14/2006 4/14/2006 6,807.71 1,247.06 136.00 4/14/2006 4/14/2006 6,240.40 6,240.40 1,144.81 125.00 4/14/2006 4/14/2006 7,624.64 1,395.11 152.00 4/14/2006 4/14/2006 2,006.84 2,844.00 2,844.00	28 Ross Core Shed	4/14/2006		6,785.02			6,785.02	1,245.17	136.00		1,381.17
4/4/2006 4/14/2006 50,830.92 50,830.92 9,319.05 1,017.00 4/14/2006 4/14/2006 51,988.23 50,830.92 9,330.45 1,040.00 1 4/14/2006 4/14/2006 4/14/2006 4/14/2006 4/14/2006 7,760.79 1,241.45 1,55.00 1 4/14/2006 4/14/2006 6,807.71 7,091.37 1,247.06 136.00 1 4/14/2006 4/14/2006 6,807.71 1,247.06 136.00 136.00 4/14/2006 4/14/2006 6,240.40 6,240.40 1,144.81 152.00 4/14/2006 4/14/2006 14/2204 142,224.46 1,224.46 1,144.81 152.00 4/14/2006 4/14/2006 142,224.46 142,224.46 142,224.46 1,144.81 152.00 4/14/2006 4/14/2006 142,224.46 142,224.46 142,224.46 142,224.46 142,224.46 142,224.46 142,224.46 140,00 4/14/2006 4/14/2006 4/14/2006 4/14/2006 4/14/2006 4/14/2006	29 Ross Dry	4/14/2006		142,961.96			142,961.96	26,203.27	2,859.00		29,062.27
4/14/2006 4/14/2006 51,988.23 51,988.23 51,988.23 1,040.00 1 4/14/2006 4/14/2006 68,757.90 12,602.31 1,375.00 1 4/14/2006 4/14/2006 7,091.37 7,091.37 1,200.69 142.00 4/14/2006 4/14/2006 6,807.71 1,247.06 136.00 4/14/2006 4/14/2006 6,240.40 6,240.40 1,144.81 125.00 4/14/2006 4/14/2006 142,224.46 142,224.46 1,395.11 152.00 4/14/2006 4/14/2006 142,224.46 142,224.46 26,066.84 2,844.00 4/14/2006 4/14/2006 20,967.75 3,841.55 419.00	30 Ross Pipe Shop	4/14/2006		50,830.92			50,830.92	9,319.05	1,017.00		10,336.05
4/14/2006 4/14/2006 68,757.90 12,602.31 1,375.00 4/14/2006 4/14/2006 7,760.79 1,421.45 155.00 4/14/2006 4/14/2006 6,807.71 1,247.06 136.00 4/14/2006 4/14/2006 6,807.71 1,247.06 136.00 4/14/2006 4/14/2006 6,240.40 6,240.40 1,144.81 125.00 4/14/2006 4/14/2006 7,624.64 1,624.64 1,395.11 152.00 4/14/2006 4/14/2006 4/14/2006 20,967.75 20,967.75 3,841.55 419.00	31 LHD Warehouse	4/14/2006		51,988.23			51,988.23	9,530.45	1,040.00		10,570.45
4/14/2006 4/14/2006 7,760.79 7,760.79 1,421.45 155.00 4/14/2006 4/14/2006 7,091.37 7,091.37 1,300.69 142.00 4/14/2006 4/14/2006 6,807.71 1,247.06 136.00 4/14/2006 4/14/2006 6,240.40 1,144.81 125.00 4/14/2006 4/14/2006 142,224.46 26,066.84 2,844.00 4/14/2006 4/14/2006 20,967.75 3,841.55 419.00	32 Ross Tramway Shed	4/14/2006		68,757.90			68,757.90	12,602.31	1,375.00		13,977.31
4/14/2006 4/14/2006 4/14/2006 6,807.71 7,091.37 1,300.69 142.00 4/14/2006 4/14/2006 6,807.71 1,247.06 136.00 4/14/2006 4/14/2006 6,240.40 6,240.40 1,144.81 125.00 4/14/2006 4/14/2006 7,624.64 7,624.64 1,395.11 152.00 4/14/2006 4/14/2006 142,224.46 20,967.75 3,841.55 419.00	33 Ross Air Tanks	4/14/2006		7,760.79			7,760.79	1,421.45	155.00		1,576.45
4/14/2006 4/14/2006 6,807.71 1,247.06 136.00 4/14/2006 4/14/2006 6,807.71 1,247.06 136.00 4/14/2006 4/14/2006 7,624.64 1,144.81 125.00 4/14/2006 4/14/2006 142,224.46 142,224.46 26,066.84 2,844.00 4/14/2006 4/14/2006 20,967.75 3,841.55 419.00	34 Ross Ramp	4/14/2006	1	7,091.37			7,091.37	1,300.69	142.00		1,442.69
4/14/2006 4/14/2006 4/14/2006 6,807.71 1,247.06 136.00 4/14/2006 4/14/2006 6,240.40 1,144.81 125.00 4/14/2006 4/14/2006 1,414.200 1,395.11 152.00 4/14/2006 4/14/2006 142,224.46 26,066.84 2,844.00 4/14/2006 20,967.75 3,841.55 419.00	35 Oro Hondo Fan Buildi			6,807.71			6,807.71	1,247.06	136.00		1,383.06
4/14/2006 4/14/2006 4/14/2006 1,144.81 125.00 4/14/2006 4/14/2006 7,624.64 1,395.11 152.00 4/14/2006 4/14/2006 142,224.46 26,066.84 2,844.00 4/14/2006 20,967.75 3,841.55 419.00	36 Oro Hondo Substation			6,807.71			6,807.71	1,247.06	136.00		1,383.06
4/14/2006 4/14/2006 7,624.64 1,395.11 152.00 4/14/2006 4/14/2006 142,224.46 26,066.84 2,844.00 20,967.75 3,841.55 419.00	37 Shaft Heater Room @			6,240.40			6,240.40	1,144.81	125.00		1,269.81
4/14/2006 4/14/2006 4/14/2006 20,967.75 20,967.75 3,841.55 419.00	38 Tramway Roundhouse			7,624.64			7,624.64	1,395.11	152.00		1,547.11
4/14/2006 4/14/2006 20,967.75 3,841.55 419.00	39 Main Warehouse	4/14/2006		142,224.46			142,224.46	26,066.84	2,844.00		28,910.84
	41 Bottle Gas Storage	4/14/2006		20,967.75			20,967.75	3,841.55	419.00		4,260.5

120-December 120-	000 - SD Science & Technology Authority	thority									
C Transmey 4142006	Sys ID Description	Acquire		Beginning	Additions	Retired	Ending	15.74	TD 6/30/2015	Retired	Ending
4142006 4142006 6 640402) - Building										
14142006 41442006 25714222 22714223 210100 100448 1201100 1100644 1201100 14142006 414	42 Tramway	4/14/2006		177,908.22			177,908.22	32,609.19	3,558.00		36,167.19
4142006 4142006 257,1422 25,1422 25,415 25,41	43 Iron House	4/14/2006	4/14/2006	60,044.02			60,044.02	11,006.48	1,201.00		12,207.48
4142006 4142006 6281011 16281011 2984156 3.256.00 3.356.00 3.356.00 3.356.00 3.444.12 3.	44 Machine Shop	4/14/2006		257,142.32			257,142.32	47,134.13	5,143.00		52,277.13
subting 4142006 4142006 26,14162 26,14162 26,14162 26,14162 26,14162 26,14162 26,200 subting 41142006 4142006 7,215.41 1,471 1,471 1,470 1500 st 41142006 4142006 5,807,71 1,4810 1,471 1,410 1,450 by 41142006 4142006 2,807,71 1,4810 1,430 1,450 1,450 by 41142006 4142006 4142006 2,078,60 2,097,66 2,090 6,000 1,400	45 Foundry	4/14/2006		162,810.11			162,810.11	29,841.56	3,256.00		33,097.56
Hardron Hard	46 Battery Repair Building	4/14/2006		26,141.62			26,141.62	4,792.51	523.00		5,315.51
Baniding 4/142006 4/142006 4/142006 4/142006 1/14200	47 Bit Shop	4/14/2006		5,446.17			5,446.17	998.65	109.00		1,107.65
Building 4/14/2006 4/14/2006 4/14/2006 4/14/2006 1/14/2006 <th< td=""><td>48 Paint Shop</td><td>4/14/2006</td><td></td><td>7,715.41</td><td></td><td></td><td>7,715.41</td><td>1,412.67</td><td>154.00</td><td></td><td>1,566.67</td></th<>	48 Paint Shop	4/14/2006		7,715.41			7,715.41	1,412.67	154.00		1,566.67
At 142006 4142006	50 East Substation Building	4/14/2006		6,807.71			6,807.71	1,247.06	136.00		1,383.06
nk 4142006 414	51 Wash Rack	4/14/2006		7,148.10			7,148.10	1,310.41	143.00		1,453.41
DDy 4142006 4142006 215.258 87 39,455.46 4,305.00 4 Bostation E 41442006 11,456.66 11,466.69 2097.66 229.00 4 ctract 41,42006 41,42006 14,42006 1,446.9 1200.0 130.00 ctract 41,42006 41,42006 3,530.78 3,530.78 667.43 73.00 ctract 41,42006 41,42006 3,547.79 6,673.77 667.27 190.60 130.00 ctract 41,42006 41,42006 3,347.79 6,673.77 41,00 10,446.17 986.54 109.00 ctract 41,42006 41,42006 17,420.13 7,446.17 986.54 109.00 10 ctract 41,42006 41,42006 17,420.13 17,431.13 3,446.10 12,910.00 14 ctract 41,42006 41,42006 17,420.16 17,420.18 17,431.13 3,464.00 3,464.00 3,464.00 ctract 41,42006 41,420.06 17,420.18	52 Steady Head Tank	4/14/2006		8,271.37			8,271.37	1,513.98	165.00		1,678.98
filt 4142006 4142006 4114266 299766 22900 filt 4142006 4144206 4142006	53 Yates Safety & Dry	4/14/2006		215,259.87			215,259.87	39,455.46	4,305.00		43,760.46
fire 4142006 4	54 Yates Power Substation E			11,436.96			11,436.96	2,097.66	229.00		2,326.66
curv 41/42006 41/42006 3.563.78 10,620.03 19,4461 212.00 curv 41/42006 41/42006 3.563.78 667.43 73.00 curv 41/42006 41/42006 2,042.31 2,042.31 35.947.9 6.522.74 679.00 cverv 41/42006 41/42006 11/43006	55 Yates Bosses Office	4/14/2006		6,490.02			6,490.02	1,190.60	130.00		1,320.60
cetor 41412006 41442006 3394779 622274 679.00 cover 4142006 41442006 3394779 622274 679.00 cover 4142006 41442006 3394779 622274 679.00 cover 4142006 41442006 1747313 104231 1142313 114238 11400 dop 4142006 41442006 1747313 114200 1142006 1747313 1142006 1142000 114	57 Yates Lamp Room	4/14/2006		10,620.03			10,620.03	1,944.61	212.00		2,156.61
c Tank 4/142006 4/142006 33,947.9 6,222.74 679.00 c Tank 4/142006 4/142006 2,042.31 33,947.9 6,222.74 679.00 c Tank 4/142006 4/142006 2,042.31 3,461.7 679.00 7 c Tank 4/142006 4/142006 1/14313 173,180.53 31,745.38 3464.00 3 siding 4/142006 4/142006 64,487.44 183,1704 12910.00 13 sec 4/142006 4/142006 64,487.44 184,76.55 24,651.47 2,690.00 13 sec 4/142006 4/142006 772,249.18 133,302.53 14,545.00 14 g Costs 1/142006 4/142006 174,012.66 917,399.02 168,184.00 34,800.00 14 g Costs 1/142006 4/142006 1/142006 1/142006 1/142006 1/142006 1/142006 1/14300 1/14300 1/14300 1/14300 1/14300 1/14300 1/14300 1/14300 1/143	58 Yates Dust Collector	4/14/2006		3,630.78			3,630.78	667.43	73.00		740.43
crank 4/142006 4/142006 2,042.31 375.12 41.00 cover 4/142006 4/142006 5,446.17 5,446.17 99.865 109.00 cor 4/142006 4/142006 17,473.13 3,206.46 3,460.00 3 pop 4/142006 4/142006 17,473.13 320.046 3,460.00 13 see 4/142006 4/142006 4/142006 4/142006 4/142006 13,475.63 129,000 13 see 4/142006 4/142006 4/142006 17,470.06 17,470.06 17,470.00	59 Yates Sawmill	4/14/2006		33,947.79			33,947.79	6.222.74	00.629		6,901.74
cor 4/14/2006 4/14/2006 5,446,17 998.65 109.00 cor 4/14/2006 4/14/2006 17,473.13 3,446.17 998.65 109.00 cor 4/14/2006 4/14/2006 17,473.13 3,200.46 349.00 13 see 4/14/2006 4/14/2006 17,473.13 3,200.46 349.00 13 see 4/14/2006 4/14/2006 645,487.44 118,317.04 12,910.00 13 see 4/14/2006 4/14/2006 134,476.55 24,651.47 2,690.00 13 see 4/14/2006 4/14/2006 17,402.06 17,401.26 174,012.66 31,894.70 34,800.00 14 sec 4/14/2006 4/14/2006 4/14/2006 4/14/2006 17,401.26 31,894.70 34,800.00 12 g Costs 1/14/2006 4/14/2006 4/14/2006 4/14/2006 4/14/2006 1/14/2006 11,303.90 11,403.20 11,204.00 11,403.20 11,204.00 11,204.00 11,204.00 11,404.20 </td <td>60 Used Oil Storage Tank</td> <td>4/14/2006</td> <td></td> <td>2,042.31</td> <td></td> <td></td> <td>2,042.31</td> <td>375.12</td> <td>41.00</td> <td></td> <td>416.12</td>	60 Used Oil Storage Tank	4/14/2006		2,042.31			2,042.31	375.12	41.00		416.12
top 4/14/2006 4/14/2006 1/14/2006 1/14/2006 1/14/2006 4/14	61 Yates Cooling Tower	4/14/2006		5,446.17			5,446.17	698.65	109.00		1,107.65
hop 4/14/2006 4/14	62 Yates Compressor	4/14/2006		173,180.53			173,180.53	31,745.38	3,464.00		35,209.38
sse 41/42006 41/42006 645,487,44 118,317.04 12,910.00 13 sse 41/42006 41/42006 134,476.55 24,651,47 2,690.00 13 st Building 41/42006 41/42006 727,249.18 133,302.53 14,545.00 14 Building 41/42006 41/42006 174,912.66 174,012.66 31,894.70 3,480.00 14 Building 41/42006 41/42006 917,399.02 168,156.40 18,348.00 18 Building 41/42006 41/42006 917,399.02 64,632.77 14,433.10 2,585.00 15 Building SXI 12/11/2008 15,178.78 15,178.78 15,178.78 15,178.78 16,71.79 304.00 16 Building 2/5/2009 2/5/2009 104,518.82 104,518.82 104,518.82 104,518.82 104,518.82 104,518.82 104,518.82 104,518.82 104,518.82 104,518.82 105,000 10,00 10,00 10,00 10,00 10,00 10,00 10,00	63 Motor Repair Shop	4/14/2006		17,473.13			17,473.13	3,200.46	349.00		3,549.46
se 4/14/2006 4/14/2006 134,476.55 134,476.55 24,651.47 2,690.00 2 al Buildin; 4/14/2006 4/14/2006 727,249.18 133,302.53 14,545.00 14 building 4/14/2006 4/14/2006 174,012.66 31,894.70 3,480.00 3 g Costs 4/14/2006 4/14/2006 17,399.02 18,348.00 18,348.00 18 g Costs 1/3/2006 4/14/2006 4/14/2006 4/14/2006 4/14/2006 4/14/2006 18,348.00 18 g Costs 1/3/2008 1/3/2007 4/14/2008 4/14/2006 4/14/2006 4/14/2006 1/14/2	64 WW Influent Building	4/14/2006		645,487.44			645,487.44	118,317.04	12,910.00		131,227.04
al Buildin; 4/14/2006 4/14/2006 727,249.18 133,302,53 14,545.00 144 2 4/14/2006 4/14/2006 174,012.66 31,894.70 3,480.00 3 2 Building 4/14/2006 4/14/2006 917,399.02 168,156.40 18,348.00 18 2 Costs 1/31/2007 1/31/2007 63,820.42 64,632.77 144.33.10 2,585.00 18 2 Losts 1/31/2008 12/12/2008 15,178.78 16,71.79 304.00 17,223,085.46 11,320.99 2,090.00 19 2 Server 20 5/30/2009 5/30/2009 5/30/2009 5/30/2009 6,911.21 6,	65 WW Lab/Fishouse	4/14/2006		134,476.55			134,476.55	24,651,47	2,690.00		27,341.47
2 4/14/2006 4/14/2	66 WW Mechanical Building			727,249.18			727,249.18	133,302.53	14,545.00		147,847.53
Building 4/14/2006 4/14/2006 917,399,02 168,156.40 18,348.00 18 g Costs 1/31/2007 1/31/2007 63,820.42 63,820.42 9974.67 1,276.00 1 g Costs 1/31/2007 1/31/2007 64,632.77 64,632.77 14,433.10 2,585.00 1 dding 9X1 12/16/2008 12/16/2008 12/16/2008 15,178.78 16,178.78 16,177.9 304.00 1 e Building 2/5/2009 2/5/2009 104,518.82 11,320.99 2,090.00 1 c Building 2/5/2009 5/23,085.46 0.00 7,223,085.46 1,315,880.29 145,753.00 1,44 Server 20 5/30/2009 5/30/2009 5/30/2009 5/30/2009 5/30/2009 5/30/2009 5/30/2009 5/30/2009 5/30/2009 5/30/2009 5/30/2009 5/30/2009 6/911.21 6/911.21 6/911.21 6/911.00 1	67 WW Warehouse	4/14/2006		174,012.66			174,012.66	31,894.70	3,480.00		35,374.70
g Costs 1/31/2007 1/31/2007 1/31/2007 1/31/2007 1/31/2007 1/31/2008 1/31/2008 1/31/2008 1/31/2008 1/31/2008 1/31/2008 1/31/2008 1/31/2008 1/31/2008 1/31/2009	68 WW Sandfilter Building	4/14/2006		917,399.02			917,399.02	168,156.40	18,348.00		186,504.40
lding 56X 12/1/2008 12/1/2008 12/1/2008 15,178.78	338 Building Closing Costs	1/31/2007		63,820.42			63,820.42	9,974.67	1,276.00		11,250,67
dding 9X1 12/16/2008 12/16/2008 15/178.78 15/178.78 15/178.79 304.00 e Building 2/5/2009 2/5/2009 104,518.82 104,518.82 11,320.99 2,090.00 1 Server 20 5/30/2009 5/30/2009 5,033.00 5,033.00 5,033.00 5,033.00 1,45,753.00 1,45,753.00 1,45,753.00 1,46 Server 20 5/30/2009 5/30/2009 5,033.00 7,294.02 7,294.02 7,294.02 7,294.02 1,45,753.00 1,46 1,45,753.00 1,46 1,45	73 WW Protec Building 56X			64,632.77			64,632.77	14,433.10	2,585,00		17,018.10
e Building 2/5/2009 2/5/2009 104,518.82 104,518.82 11,320.99 2,090.00 1 Server 20 5/30/2009 5/30/2009 5/30/2009 5/30/2009 5/30/2009 7,294.02 7,294.02 7,294.02 1,445,753.00 0.00 1,44 Server 20 5/30/2009 5/30/2009 7,294.02 7,294.02 7,294.02 7,294.02 5,033.00 5,033.00 5,033.00 5,033.00 5,033.00 5,033.00 6,911.21 6,911.21 6,911.00 6,911.21 6,911.00 6,911.01 6,911.00 6,91	74 WW Valve Building 9X1			15,178.78			15,178.78	1,671.79	304.00		1,975.79
Server 20 5/30/2009 5/30/2009 5/30/2009 5/30/2009 5/30/2009 6/911.21 6/911.21 6/911.21 6/911.21 6/911.21 6/911.21 6/911.21 6/911.21 6/911.21 6/90 7/223,085.46 1,315,880.29 145,753.00 0.00 1,44 Server 20 5/30/2009 5/30/2009 5/30/2009 5/30/2009 5/30/2009 6/911.21 6/911.21 6/911.21 6/911.00	75 WW Pole Frame Building			104,518.82			104,518.82	11,320.99	2,090.00		13,410.99
Server 20 5/30/2009 5/30/2009 5,033.00 5,033.00 Server 20 5/30/2009 5/30/2009 7,294.02 7,294.02 Server 20 5/30/2009 5/30/2009 5,033.00 5,033.00 Server 20 5/30/2009 5/30/2009 6,911.21 6,911.21 6,911.00	- Committee Hardware			7,223,085.46	0.00	0.00	7,223,085.46	1,315,880.29	145,753.00	0.00	1,461,633.29
lows Server 20 5/30/2009 5/30/2009 7,294.02 7,294.02 7,294.02 lows Server 20 5/30/2009 5/30/2009 5,033.00 5,033.00 lows Server 20 5/30/2009 5/30/2009 6,911.21 6,911.20	83 2950 Windows Server 20			5,033.00			5,033.00	5,033.00			5,033.00
lows Server 20 5/30/2009 5/30/2009 5/30/2009 5/30/2009 5/30/2009 5/30/2009 6,911.21 6,911.21 6,911.00	84 2950 Windows Server 20			7,294.02			7,294.02	7,294.00			7,294.00
lows Server 20 5/30/2009 5/30/2009 6,911.21 6,911.21 6,911.00	85 2950 Windows Server 20			5,033.00			5,033.00	5,033.00			5,033.00
MA 1.35-14 DM	86 2950 Windows Server 20			6,911.21			6,911.21	6,911.00			6,911.00
	Md 91.35.151000										Page 2

O00 - ST	000 - SD Science & Technology Authority	ority						- 1			
Sys	Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning V7	YTD 6/30/2015	Retired	Ending
130 - Co	- Computer Hardware										
	87 2950 Windows Web Serv	5/30/2009	5/30/2009	5,424.45			5,424.45	5,424.00			5,424.00
	88 Rack Server RACK	5/30/2009	5/30/2009	5,700.94			5,700.94	5,700.02			5,700.02
	89 Rack Server RACK	5/30/2009	5/30/2009	5,700.94			5,700.94	5,700.02			5,700.02
5,	90 2950 Windows Server 20	5/30/2009	5/30/2009	5,033.00			5,033.00	5,033.00			5,033.00
,	91 DL2000 Windows Server	5/30/2009	5/30/2009	19,609.68			19,609,68	19,609.00			19,609.00
3,	92 DL2000 Windows Server	5/30/2009	5/30/2009	14,861.57			14,861.57	14,860.69			14,860.69
٠,	95 Router Kit 7609-2SUP72	5/30/2009	5/30/2009	56,935.00			56,935.00	56,934.92			56,934.92
٠,	96 Catalyst 48-Port 10/100/1	5/30/2009	5/30/2009	8,910.00			8,910.00	8,910.00			8,910.00
,	97 Catalyst 48-Port 10/100/1	5/30/2009	5/30/2009	8,938.50			8,938.50	8,937.98			8,937.98
-	98 SSG 550M System 1GB	5/30/2009	5/30/2009	7,350.00			7,350.00	7,350.00			7,350.00
	99 SA2500 Secure Access 2:	5/30/2009	5/30/2009	7,906.50			7,906.50	7,905.78			7,905.78
=	100 41213 Management Swit	5/30/2009	5/30/2009	6,196.90			6,196.90	6,196.28			6,196.28
Ĩ	101 41213 Management Swit-	5/30/2009	5/30/2009	6,196.90			6,196.90	6,196.28			6,196.28
Ē	102 41213 Management Swit	5/30/2009	5/30/2009	6,196.90			6,196.90	6,196.28			6,196.28
	103 41213 Management Swit	5/30/2009	5/30/2009	6,196.90			6,196.90	6,196.28			6,196.28
= age	104 41213 Management Swit-	5/30/2009	5/30/2009	6,196.90			6,196.90	6,196.28			6,196.28
	105 41213 Management Swit	5/30/2009	5/30/2009	6,196.90			6,196.90	6,196.28			6,196.28
	106 41517 48 Port TX 12800	5/30/2009	5/30/2009	6,510.00			6,510.00	6,510.00			6,510.00
	107 41517 48 Port TX 12800	5/30/2009	5/30/2009	6,510.00			6,510.00	6,510.00			6,510.00
	108 41517 48 Port TX 12800	5/30/2009	5/30/2009	6,510.00			6,510.00	6,510.00			6,510.00
-	109 41544 48 Port GBIC 128	5/30/2009	5/30/2009	9,916.90			9,916,90	9,916.28			9,916.28
1	110 41544 48 Port GBIC 128	5/30/2009	5/30/2009	9,916.90			06'916'6	9,916.28			9,916.28
1	111 41544 48 Port GBIC 128	5/30/2009	5/30/2009	9,916.90			9,916.90	9,916.28			9,916.28
-	112 41517 BD 12800 Manage	5/30/2009	5/30/2009	6,510.00			6,510.00	6,510.00			6,510.00
-	113 41517 BD 12800 Manage	5/30/2009	5/30/2009	6,510.00			6,510.00	6,510.00			6,510.00
1	114 SSG 550M System 1GB	5/30/2009	5/30/2009	7,350.00			7,350.00	7,350.00			7,350.00
-	115 SA2500 Secure Access 2:	5/30/2009	5/30/2009	7,906.50			7,906.50	7,905.78			7,905.78
1	116 41544 BD 12800 Manage	5/30/2009	5/30/2009	9,916.90			9,916.90	9,916.28			9,916.28
	93 2950 Windows Server 20	6/30/2009	6/30/2009	6,448.96			6,448.96	6,448.00			6,448.00
	94 Cosign Appliance Windo	6/30/2009	6/30/2009	8,600.00			8,600.00	8,600.00			8,600.00
3	350 Virtual Windows Server	6/1/2010	6/1/2010	8,840.42			8,840.42	7,219.00	1,621.00		8,840.00
3	351 Server Rack	6/30/2010	6/30/2010	7,986.99			7,986.99	6,388.00	1,598.00		7,986.00
3	352 PLC Mine Monitoring Sy	6/30/2010	6/30/2010	7,910.20			7,910.20	6,328.00	1,582.00		7,910.00
4	429 PLC Mine Monitoring Sy	7/15/2010	7/15/2010	2,343.71			2,343.71	1,876.00	467.00		2,343.00
4	433 PLC Mine Monitoring Sy	4/1/2011	4/1/2011	19,866.94			19,866.94	12,912.00	3,973.00		16,885.00
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Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2015	Retired	Ending
130 - Computer Hardware										
549 Apple MP 3,5 1TB 32GB	3/31/2014	3/31/2014	5,170.42			5,170.42	258.00	1,034.00		1,292.00
583 Power Edge Server Syster	1/26/2010	6/30/2015	6,898.07			6,898.07	5,584.16			5,584.16
586 Dell Equal Logic PS1000	4/27/2011	6/30/2015	31,121.72			31,121.72	21,859.34			21,859.34
587 PowerVault MD1000 Sto	11/18/2011	6/30/2015	8,131.40			8,131.40	4,646.49			4,646.49
588 PowerVault MD1000 Sto	11/18/2011	6/30/2015	8,131.40			8,131.40	4,646.49			4,646.49
600 Virtual HP Server	6/29/2015	6/30/2015		17,362.50		17,362.50				0.00
601 Virtual HP Server	6/29/2015	6/30/2015		17,362.50		17,362.50				0.00
			416,747.54	34,725.00	00:00	451,472.54	382,050.47	10,275.00	00.00	392,325.47
140 - Equipment & Fixtures										
119 Telephone Equipment	6/1/2006	6/1/2006	3,927.47			3,927.47	3,608.69	318.00		3,926.69
120 Kubota RTV900T6H Util	10/31/2006	10/31/2006	16,535.00			16,535.00	12,679.33	1,654.00		14,333.33
121 John Deere 304J Wheel L	11/30/2006	11/30/2006	89,701.26			89,701.26	68,022.83	8,970.00		76,992.83
122 Solomon Corp 1000kva,1		3/16/2007	8,017.33			8,017.33	2,450.43	200.00		2,650.43
179 Softstart Controllers 700F	6/30/2007	6/30/2007	167,350.00			167,350.00	66,941.67	11,157.00		78,098.67
		7/1/2007	21,400.00			21,400.00	14,980.00	2,140.00		17,120.00
124 Command Modules Com	7/1/2007	7/1/2007	18,589.00			18,589.00	18,589.00			18,589.00
125 Self-Contained Breathing	7/1/2007	7/1/2007	97,720.00			97,720.00	97,720.00			97,720.00
207 Motor GE 700HP HL840	9/24/2007	9/24/2007	28,370.67			28,370.67	8,508.53	1,418.00		9,926.53
154 700HP Kirk Timberyard:	11/29/2007	11/29/2007	25,860.76			25,860.76	5,172.03	862.00		6,034.03
168 Transformer 225 KVA TI	12/17/2007	12/17/2007	12,355.22			12,355.22	1,853.88	309.00		2,162.88
126 Safety Apparatus (7 pack	12/31/2007	12/31/2007	48,860.00			48,860.00	31,759.00	4,886.00		36,645.00
196 Ross Headframe Air Unit	12/31/2007	12/31/2007	10,817.00			10,817.00	6,491.70	1,082.00		7,573.70
331 Tsurumi Pumps LH675-6	2/4/2008	2/4/2008	22,279.36			22,279.36	5,346.18	891.00		6,237.18
213 Transformer GE 500KVA	2/27/2008	2/27/2008	7,350.00			7,350.00	1,103.75	184.00		1,287.75
220 Transformer GE 500KVA	2/27/2008	2/27/2008	7,350.00			7,350.00	1,103.75	184.00		1,287.75
221 Transformer Howard Ind	2/27/2008	2/27/2008	7,350.00			7,350.00	1,103.75	184.00		1,287.75
223 Transformer Howard Ind	2/27/2008	2/27/2008	7,350.00			7,350.00	1,103.75	184.00		1,287.75
224 Transformer Solomon 10	2/27/2008	2/27/2008	5,900.00			5,900.00	887.50	148.00		1,035.50
225 Transformer Solomon 10	2/27/2008	2/27/2008	5,900.00			5,900.00	887.50	148.00		1,035.50
226 Transformer Solomon 10	2/27/2008	2/27/2008	5,900.00			5,900.00	887.50	148.00		1,035.50
227 Transformer Howard Ind	2/27/2008	: 2/27/2008	7,350.00			7,350.00	1,103.75	184.00		1,287.75
228 Transformer GE 75KVA	2/27/2008	: 2/27/2008	5,800.00			5,800.00	870.00	145.00		1,015.00
229 Transformer GE 75KVA	2/27/2008	: 2/27/2008	5,800.00			5,800.00	870.00	145.00		1,015.00
230 Transformer GE 75KVA	2/27/2008	: 2/27/2008	5,800.00			5,800.00	870.00	145.00		1,015.00
218 Transformer GE 500KVA	2/28/2008	3/28/2008	7,350.00			7,350.00	1,103.75	184.00		1,287.75
										d

000 - SD Science & Technology Authority	ority									+
Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning Y	YTD 6/30/2015	Retired	Ending
140 - Equipment & Fixtures										
129 3 Ton Locomotive Batter	2/29/2008	2/29/2008	7,884.00			7,884.00	7,884.00			7,884.00
178 Skid Tanks 4X4X12 (4)	3/6/2008	3/6/2008	24,872.90			24,872.90	5,969.92	995.00		6,964.92
201 Pump Ingersoll Rand 037	3/12/2008	3/12/2008	91,206.72			91,206.72	21,888.27	3,648.00		25,536.27
211 Transformer GE 500KVA	3/25/2008	3/25/2008	7,350.00			7,350.00	1,103.75	184.00		1,287.75
212 Transformer GE 500KVA	3/25/2008	3/25/2008	7,350.00			7,350.00	1,103.75	184.00		1,287.75
214 Transformer Westinghous	3/25/2008	3/25/2008	7,350.00			7,350.00	1,103.75	184.00		1,287.75
216 Transformer Westinghou:	3/25/2008	3/25/2008	7,350.00			7,350.00	1,103.75	184.00		1,287.75
217 Transformer Westinghous	3/25/2008	3/25/2008	7,350.00			7,350.00	1,103.75	184.00		1,287.75
219 Transformer GE 500KVA	3/25/2008	3/25/2008	7,350.00			7,350.00	1,103.75	184.00		1,287.75
130 Kyocera Color Copier KN	4/30/2008	4/30/2008	6,749.00			6,749.00	6,749.00			6,749.00
131 Kyocera Color Copier KN	4/30/2008	4/30/2008	7,081.00			7,081.00	7,081.00			7,081.00
144 Cranes	4/30/2008	4/30/2008	100,509.34			100,509.34	8,040.12	1,340.00		9,380.12
204 Motor GE 700HP FM84C	5/6/2008	5/6/2008	32,772.50			32,772.50	9,833.63	1,639.00		11,472.63
190 Troll 9500 Water Sample	5/14/2008	5/14/2008	8,325.92			8,325.92	4,992.59	832.00		5,824.59
180 Axial Flow Mine Fan 150	5/30/2008	5/30/2008	53,484.75			53,484.75	16,044.24	2,674.00		18,718.24
127 Draeger Tester 6100	5/31/2008	5/31/2008	6,010,95			6,010.95	6,010.95			6,010.95
142 Base Interface 4 channel	6/18/2008	6/18/2008	6,011.00			6,011.00	3,606.10	601.00		4,207.10
132 Telephone System Additi	6/30/2008	6/30/2008	11,371.31			11,371.31	6,822.00	1,137.00		7,959.00
165 Ross Cage	6/30/2008	6/30/2008	40,179.02		(40,179.02)	0.00	24,107.90		(24,107.90)	0.00
166 Ross Hoist (2)	6/30/2008	6/30/2008	121,842.89			121,842.89	9,749.57	1,625.00		11,374.57
169 Transformer GE 5MVA N	7/1/2008	7/1/2008	5,000.00			5,000.00	750.00	125.00		875.00
171 Transformer GE 1500KV	7/1/2008	7/1/2008	5,000.00			5,000.00	750.00	125.00		875.00
172 Transformer GE 10,000K	7/1/2008	7/1/2008	10,000.00			10,000.00	1,500.00	250.00		1,750.00
173 Transformer GE 20,000K	7/1/2008	7/1/2008	15,000.00			15,000.00	2,250.00	375.00		2,625.00
174 Transformer GE 10,000 F	7/1/2008	7/1/2008	10,000.00			10,000.00	1,500.00	250.00		1,750.00
175 Transformer GE 10,000K	7/1/2008	7/1/2008	10,000.00			10,000.00	1,500.00	250.00		1,750.00
247 MG Sets (2) Yates	7/1/2008	7/1/2008	60,000.00			00.000,09	4,800.00	800.00		2,600.00
235 FLYGT Centrifugal Pump	7/23/2008	7/23/2008	11,997.23			11,997.23	2,839.90	480.00		3,319.90
197 Ross Hoist Bldg (3) Boile	7/31/2008	7/31/2008	125,245.77			125,245.77	74,100.86	12,524.00		86,624.86
167 Security Monitoring Gate	8/1/2008	8/1/2008	23,126.00			23,126.00	13,684.88	2,313.00		15,997.88
202 Pump Ingersoll Rand 213	8/1/2008	8/1/2008	22,508.00			22,508.00	5,325.29	900.00		6,225.29
203 Pump Ingersoll Rand 675	8/1/2008	8/1/2008	130,646.97			130,646.97	30,920.39	5,226.00		36,146.39
234 Diesel Generator - WWTI	8/1/2008	8/1/2008	5,000.00			5,000.00	2,958.33	500.00		3,458.33
236 FLYGT 10HP Pumps (2)	8/1/2008	8/1/2008	12,000.00			12,000.00	2,840.00	480.00		3,320.00
237 FLYGT 15HP Pumps (2)	8/1/2008	8/1/2008	18,000.00			18,000.00	4,260.00	720.00		4,980.00
										Page 5

	8 8/1/2008 8 8/1/2008 8 8/1/2008 8 8/1/2008 8 8/1/2008 8 8/1/2008 8 8/1/2008 8 8/1/2008 8 8/25/2008 8 8/25/2008 8 8/25/2008	8eginning 5,000.00 10,000.00 206,014.95 15,000.00 45,000.00	Additions	Retired	Ending	Beginning Y	YTD 6/30/2015	Retired	Ending
0 - Equipment & Fixtures 239 Pilot RBC 240 Root Blowers (2) 241 Rotating Biological Cont: 242 Sand Filter Galiger Pump 243 Sand Filters (3) WWTP 245 Soda Ash System 188 Electric Winch (WE271) 231 Fume Hood for Lab Cabii 205 Motor GE 700HP FM84C 156 MG Sets (2) Ross 194 Yates Hoists (2) 209 Motor GE 700HP HL840 150 Kubota GL7000 Generate 232 Cornell Pumps W/Baldor		5,000.00 10,000.00 206,014.95 15,000.00 45,000.00)				
239 Pilot RBC 240 Root Blowers (2) 241 Rotating Biological Cont. 242 Sand Filter Galiger Pump 243 Sand Filters (3) WWTP 245 Soda Ash System 188 Electric Winch (WE271) 231 Fume Hood for Lab Cabii 205 Motor GE 700HP FM84C 156 MG Sets (2) Ross 194 Yates Hoists (2) 209 Motor GE 700HP HL840 150 Kubota GL7000 Generate 232 Cornell Pumps W/Baldor		5,000.00 10,000.00 206,014.95 15,000.00 45,000.00							
240 Root Blowers (2) 241 Rotating Biological Cont. 242 Sand Filter Galiger Pump 243 Sand Filters (3) WWTP 245 Soda Ash System 188 Electric Winch (WE271) 231 Fume Hood for Lab Cabii 205 Motor GE 700HP FM84C 156 MG Sets (2) Ross 194 Yates Hoists (2) 209 Motor GE 700HP HL840 150 Kubota GL7000 Generatc 232 Cornell Pumps W/Baldor		10,000.00 206,014.95 15,000.00 45,000.00			5,000.00	591.67	100.00		291.69
241 Rotating Biological Cont: 242 Sand Filter Galiger Pump 243 Sand Filters (3) WWTP 245 Soda Ash System 188 Electric Winch (WE271) 231 Fume Hood for Lab Cabii 205 Motor GE 700HP FM84C 156 MG Sets (2) Ross 194 Yates Hoists (2) 209 Motor GE 700HP HL840 150 Kubota GL7000 Generate 232 Cornell Pumps W/Baldor		206,014,95 15,000.00 45,000.00			10,000.00	5,916.67	1,000.00		6,916.67
242 Sand Filter Galiger Pump 243 Sand Filters (3) WWTP 245 Soda Ash System 188 Electric Winch (WE271) 231 Fume Hood for Lab Cabii 205 Motor GE 700HP FM84C 156 MG Sets (2) Ross 194 Yates Hoists (2) 209 Motor GE 700HP HL840 150 Kubota GL7000 Generate 232 Cornell Pumps W/Baldor		15,000.00 45,000.00 0 573.70			206,014.95	24,376.94	4,120.00		28,496.94
243 Sand Filters (3) WWTP 245 Soda Ash System 188 Electric Winch (WE271) 231 Fume Hood for Lab Cabii 205 Motor GE 700HP FM84C 156 MG Sets (2) Ross 194 Yates Hoists (2) 209 Motor GE 700HP HL840 150 Kubota GL7000 Generatc 232 Cornell Pumps W/Baldor		45,000.00			15,000.00	3,550.00	00.009		4,150.00
245 Soda Ash System 188 Electric Winch (WE271) 231 Fume Hood for Lab Cabii 205 Motor GE 700HP FM84C 156 MG Sets (2) Ross 194 Yates Hoists (2) 209 Motor GE 700HP HL840 150 Kubota GL7000 Generatc 232 Cornell Pumps W/Baldor		0 573 70			45,000.00	5,325.00	00.006		6,225.00
188 Electric Winch (WE271) 231 Fume Hood for Lab Cabii 205 Motor GE 700HP FM84C 156 MG Sets (2) Ross 194 Yates Hoists (2) 209 Motor GE 700HP HL840 150 Kubota GL7000 Generate 232 Cornell Pumps W/Baldor		7,010.10			9,573.70	1,130.52	191.00		1,321.52
231 Fume Hood for Lab Cabii 205 Motor GE 700HP FM84C 156 MG Sets (2) Ross 194 Yates Hoists (2) 209 Motor GE 700HP HL840 150 Kubota GL7000 Generatc 232 Cornell Pumps W/Baldor		47,187.00			47,187.00	5,585.10	944.00		6,529.10
		5,989.95			5,989.95	3,494.16	599.00		4,093.16
		38,004.39			38,004.39	11,083.52	1,900.00		12,983.52
		00'000'09			60,000.00	4,666.67	800.00		5,466.67
		89,168.26			89,168.26	6,935.76	1,189.00		8,124.76
	8 9/22/2008	31,362.30			31,362.30	9,016.09	1,568.00		10,584.09
	8 10/21/2008	5,300.00			5,300.00	3,003.33	530.00		3,533.33
	8 10/29/2008	27,102.98			27,102.98	6,142.75	1,084.00		7,226.75
157 Miller Trailblazer 3020 V 11/5/2008	8 11/5/2008	7,430.00			7,430.00	4,210.33	743.00		4,953.33
137 40 Unit Cap Lamp Charg 11/20/2008	8 11/20/2008	5,253.00			5,253.00	2,931.43	525.00		3,456.43
206 Motor GE 700HP FM835 11/24/2008	8 11/24/2008	35,025.30			35,025.30	9,776.57	1,751.00		11,527.57
149 FSM-60S Fusion Splice F 11/28/2008	8 11/28/2008	19,810.00			19,810.00	7,375.39	1,321.00		8,696.39
136 Admin. Bldg. Heating/Cc 11/30/2008	8 11/30/2008	32,493.88			32,493.88	18,140.48	3,249.00		21,389.48
244 Seepex 200 GPM Pump / 12/15/2008	12/15/2008	16,316.24			16,316.24	3,645.71	653.00		4,298.71
238 Hoffman 3R Wall Mount 12/24/2008	12/24/2008	11,657.72			11,657.72	4,273.59	777.00		5,050.59
148 Franklin 8" Sand Fighter 12/29/2008	12/29/2008	44,457.42			44,457.42	12,226.44	2,223.00		14,449.44
161 1,000,000BTU Indirect F 12/30/2008	12/30/2008	15,537.00			15,537.00	8,546.85	1,554.00		10,100.85
143 (1) Benshaw Softstart 70(1/6/2009	1/6/2009	35,257.43			35,257.43	12,925.25	2,350.00		15,275.25
162 VFD Pump Controller 15 2/2/2009	9 2/2/2009	23,100.00			23,100.00	8,341.67	1,540.00		9,881.67
163 VFD Pump Controller 20 2/2/2009	9 2/2/2009	46,200.00			46,200.00	16,683.33	3,080.00		19,763.33
160 Portable Air Conditioner 2/6/2009	9 2/6/2009	11,325.40			11,325.40	6,131.89	1,132.00		7,263.89
146 Float Valves for Yates (1, 2/9/2009	9 2/9/2009	114,346.31			114,346.31	61,939.43	11,435.00		73,374.43
145 Crane #6 Winze Undergr 2/19/2009	9 2/19/2009	10,631.95			10,631.95	757.25	142.00		899.25
134 Panasonic PTF200TU Wi 2/24/2009	9 2/24/2009	7,353.83			7,353.83	3,920.13	735.00		4,655.13
200 Pump Ingersoll Rand 107 2/25/2009	99 2/25/2009	122,676.93			122,676.93	26,170.69	4,907.00		31,077.69
208 Motor GE 700HP ZRH28 3/5/2009	3/5/2009	27,154.00			27,154.00	7,242.57	1,358.00		8,600.57
158 3000HP American David 3/6/2009	3/6/2009	78,752.15			78,752.15	14,000.02	2,625.00		16,625.02
199 Pump Ingersoll Rand 100 3/28/2009	99 3/28/2009	147,258.51			147,258.51	30,922.59	5,890.00		36,812.59
192 Western Tornado Sand S _I 4/1/2009	99 4/1/2009	5,168.50			5,168.50	2,714.21	517.00		3,231.21
MG 91:35:15 100020									Page 6

10. December Acquired Reginating Acquired Reginating Pendinating	000 - SD Science & Technology Authority	uthority									
99 Weatern (International & All 2009 4,1000 4(1000 4(2009 4,2406 1,2406 1	Sys ID Description	Acquire	1	Beginning	Additions	Retired	Ending	5.7	YTD 6/30/2015	Retired	Ending
1997 Name of Particular Chees 4712009 4234763 432463 432463 432464 432484 432	10 - Equipment & Fixtures										
47 Public Schomistic Color 42000 42000 59911 58518 58200 41000 4100000 410000 410000 410000 410000 410000 410000 4100000 4100000 410000 4100000 4100000 4100000 4100000 4100000 4100000 4100000 4100000 4100000 4100000 4100000 4100000 4100000 41000000 41000000 41000000 41000000 410000000 41000000 410000000000	193 Western Ultramount Pro			5,247.63			5,247.63	2,756.19	525.00		3,281.19
1987 Permignational Mandary State (Activation State Activation State	147 Danfoss Flowmatic Chec			6,919.11			6,919.11	3,632.98	692.00		4,324.98
19 W Machania Logonal Charles and Machania Logonal Charles and Assable Stations (2009) 12,880.41 12,880.41 12,880.41 13,800.93 13	198 Pump Ingersoll Rand 37.			55,987.45			55,987.45	11,568.25	2,239.00		13,807.25
State Stat	191 Watertank Carbon steel 9			12,880.41			12,880.41	2,660.87	515.00		3,175.87
181 Tropian 3.25 Lockmontrie 610,0000 610,0000 1,616.500 1,616.500 1,616.500 1,616.500 1,616.500 1,616.500 1,610.000	164 VFD 150 HP Control Pa			12,705.00			12,705.00	4,376.17	847.00		5,223.17
187 Battery for Trajan Locan 6102009 61	181 Trojan 3.25 Locomotive			51,615.60			51,615.60	11,849.23	2,331.00		14,180.23
135 Hurona 560 Wall Tank am 61112009 6112009 6122000 129900 129900 129900 129900 129900 15	182 Battery for Trojan Locon			11,000.00			11,000.00	7,985.95	1,571.00		9,556.95
135 Anabul Inergan Fire Supp. 6232009 6232009 12919.00 12919.00 12919.00 12919.00 12919.00 12919.00 12919.00 65000 167500	153 Huron 560 Wall Tank an			80.860,9			80.860,9	1,550.41	305.00		1,855.41
155 Lift Bag Kit Light USAR 672,2009 675,2009 16,750,00 16,744.4 140,206 14,250,00 16,244.4 140,206 14,125,00 1,290,00 1,2	138 Ansul Inergen Fire Supp			12,919.00			12,919.00	4,305.00	861.00		5,166.00
135 Telephone Expansion 66262009 6282009 128.24927 14,125.00 2,825.00 16,990 149 2008 Antic Cat 700 Dises 6392009 6392009 10,24454 10,24454 6,950.00 1,390.00 8.8 141 2008 Antic Cat 700 Dises 6392009 6392009 10,24454 10,24454 6,950.00 1,390.00 8.8 141 2008 Antic Cat 700 Dises 6302009 6302009 27,100.00 27,100.00 1,390.00 8.8 15 Pontable Generator 100K 6302009 6302009 27,100.00 27,100.00 1,390.00 1,390.00 8.8 15 Pontable Generator 100K 6302009 27,100.00 27,100.00 27,100.00 1,390.00	155 Lift Bag Kit Light US&F			16,750.00			16,750.00	8,375.00	1,675.00		10,050.00
139 2008 Artic Car 700 Dises 630 2009 10.244.54 6.98 00 1.390 00 8.8 140 208 Artic Car 700 Dises 630 2009 630 2009 10.244.54 6.98 00 1.390 00 8.8 141 2008 Artic Car 700 Dises 630 2009 630 2009 10.244.54 10.244.54 6.98 00 1.390 00 8.8 141 2008 Artic Car 700 Dises 630 2009 630 2009 630 2009 630 2009 21.100 39 21.100 30 21.100 30 1.350 00 2.34 00 1.35 151 Purable Generator 100K* 630 2009 630 2009 630 2009 630 2009 2.100 30 2.1100 30 1.350 00 2.34 00 1.350 00	135 Telephone Expansion			28,249.27			28,249.27	14,125.00	2,825.00		16,950.00
140 2008 Artic Cut 700 Dises 630 2009 10.244.54 6.95 00 1,390 00 8.8 141 2008 Artic Cut 700 Dises 630 2009 630 2009 10.244.54 10.244.54 6.95 00 1,390 00 8.8 151 Portable Garteriate 100K 630 2009 630 2009 27,100 00 27,100 00 1,355 00 2,710 00 16.55 00 353 JD Skid Ster Fled Tarker Stander 630 2009 630 2009 630 2009 630 2009 630 2009 1,100 00 2,710 00 1,135 00 1,100 00 1,140 00	139 2008 Artic Cat 700 Dies			10,244.54			10,244.54	6,950.00	1,390.00		8,340.00
11 2008 Antie Cast 700 Diese 6302009 6302009 6302009 6302009 1024455 6,980 00 13,980 00	140 2008 Artic Cat 700 Dies			10,244.54			10,244.54	6,950.00	1,390.00		8,340.00
151 Portable Generator 100K 6502009 6702009 27,100.00 13,550.00 27,100.00 102 155 Rose Fuel Tank/StandCc 6502009 6702009 21,003.9 13,550.00 2,110.00 13,500.00 2,110.00 13,500.00 13,100.00	141 2008 Artic Cat 700 Dies			10,244.55			10,244.55	6,950.00	1,390.00		8,340.00
195 Ross Fixed Tank/Stank/Cc 61/2009 630/2009 21/100.39 10,550.00 2,110.00 11,550.00 2,110.00 11,550.00 2,110.00 11,550.00 2,110.00 11,550.00 11,650.00 2,334.00 11,550.00 133.34.00 11,550.00 133.34.00				27,100.00			27,100.00	13,550.00	2,710.00		16,260.00
353 JD Skid Steer 315 W/CE 71/18 ZOO 71/18 ZOO 23.241 00 11,426.00 2.324.00 13.34 Tool 354 Trojan 3.25 Locomotive 8.28 ZOO 8.28 ZOO 8.28 ZOO 8.28 ZOO 8.23 ZOO 8.23 ZOO 8.20 ZOO 9.11,000 11,000 DO 11,000				21,100.39			21,100.39	10,550.00	2,110.00		12,660.00
354 Trojan 3.25 Locomotive 8.28/2009 8.28/2009 8.1192.71 11,165.00 2.310.00 11.35 355 36Cell/72 Volt Battery fit 8.28/2009 8.120.00 11,000.00 11,000.00 11,000.00 11,000 24,00 356 Saryo Air Conditioning 5 91/12009 9				23,241.00			23,241.00	11,426.00	2,324.00		13,750.00
355 36Cell/12 Volt Battery fit 8.282.009 8.282.009 11,000.00 11,000.00 11,000.00 11,000.00 11,000.00 11,000.00 11,000.00 11,000.00 24,140.00 24,1				51,192.71			51,192.71	11,165.00	2,310.00		13,475.00
Conditioning 5 9/1/2009 9/1/2009 9/1/2009 4/1401.66 24,401.60 4/14000 24,4000 Lee Blast Unit 9/1/2009 9/1/2009 1/1/2009				11,000.00			11,000.00	10,633.00	367.00		11,000.00
Lee Blast Unit 9/17/2009 9/17/2009 17/75000 17/7500 <td>356 Sanyo Air Conditioning</td> <td></td> <td></td> <td>41,401.66</td> <td></td> <td></td> <td>41,401.66</td> <td>20,010.00</td> <td>4,140.00</td> <td></td> <td>24,150.00</td>	356 Sanyo Air Conditioning			41,401.66			41,401.66	20,010.00	4,140.00		24,150.00
ge Cable Testi 9/23/2009 9/23/2009 7/92000 7/92000 7/9200 4-4 Data Video Pr. 9/30/2009 9/30/2009 6/797.47 6/797.47 6/456.00 792.00 6 ar LUX Surface Pr. 9/30/2009 9/30/2009 6/30/2009 6/30/2009 6/11.30 2/855.00 601.00 6 ar LUX Surface Pr. 9/30/2009 10/1/2009 10/1/2009 10/1/2009 10/1/2009 7,200.00 <t< td=""><td>357 F-16A Dry Ice Blast Uni</td><td></td><td></td><td>17,750.00</td><td></td><td></td><td>17,750.00</td><td>8,431.00</td><td>1,775.00</td><td></td><td>10,206.00</td></t<>	357 F-16A Dry Ice Blast Uni			17,750.00			17,750.00	8,431.00	1,775.00		10,206.00
Data Video Pr 9/30/2009 9/30/2009 6/397.47 6/456.00 341.00 6. er LUX Surfac 10/1/2009 10/1/2009 10/1/2009 10/1/2009 6,011.30 2.885.00 601.00 3. tem Ultramour 10/1/2009 10/1/2009 3.309.25 2.582.00 480.00 2. sest Symo Pos 10/1/2009 10/1/2009 3.5.257.43 11,163.00 2.350.00 48.00 sest Symo Pos 10/1/2009 10/1/2009 3.5.257.43 11,163.00 2.350.00 4. sest Symo Pos 10/1/2009 11/1/2009 3.5.257.43 11,163.00 2.350.00 4. sted Enclosure 11/1/2009 11/1/2009 7.200.00 7.200.00 7.200.00 2.240.00 4.042.00 8.66.00 4. syl Py Fan at (11/1/2009 11/1/2009 11/1/2009 11/1/2009 11/1/2009 4.042.00 4.042.00 2.240.00 2.240.00 2.240.00 2.240.00 2.240.00 2.240.00 2.240.00 2.240.00 2.240.00 2.240.00	358 High Voltage Cable Test			7,920.00			7,920.00	3,762.00	792.00		4,554.00
rer LUX Surfac 10/1/2009 6,011.30 2,855.00 601.00 3. ster LUX Surfac 10/1/2009 10/1/2009 7,200.00 7,200.00 2,280.00 480.00 2,2 tern Ultramout 10/1/2009 10/1/2009 3,309.25 2,522.00 531.00 3. othstart 700HF 10/1/2009 10/1/2009 3,5257.43 11,163.00 2,350.00 4 csel Symo Pox 10/1/2009 10/22/2009 10/22/2009 3,257.43 11,163.00 2,350.00 4 csel Symo Pox 10/22/2009 10/22/2009 3,257.43 11,163.00 2,350.00 4 stest Symo Pox 10/22/2009 10/22/2009 3,721.30 8,665.05 4,042.00 8,660.00 4 stest Symo Pox 10/1/2009 11/1/2009 11/1/2009 11/1/2009 3,721.30 2,520.00 3,309.00 4,042.00 8,660.00 4 stock Symbol Pox	396 Panasonic Data Video Pi			6,797.47			6,797.47	6,456.00	341.00		6,797.00
tem Ultramout 10/1/2009 1/200 7,200.00 2,280.00 480.00 2,280.00 480.00 2,280.00 480.00 2,280.00 480.00 2,280.00 3.30.00 4.40.00 3.30.00 4.40.00 3.30.00 4.40.00 3.30.00 4.40.00 3.30.00 4.40.00 3.30.00 4.40.00 3.30.00 4.40.00 3.30.00 4.40.00 3.30.00 4.40.00 3.30.00 4.40.00 3.30.00 4.40.00 3.30.00 4.40.00 3.30.00 4.40.00 3.30.00 4.40.00 3.30.00 4.40.00 4.40.00 4.40.00 4.40.00 4.40.00 4.40.00 4.40.00 4.40.00 4.40.00 4.40.00 4.40.00 4.40.00 4.40.00	359 Water Meter LUX Surfa			6,011.30			6,011.30	2,855.00	00'109		3,456.00
tern Ultramour 10/1/2009 10/1/2009 5,309.25 2,522.00 531.00 3 obstant 700HF 10/1/2009 10/1/2009 35,257.43 11,163.00 2,350.00 13 csel Symo Pov 10/22/2009 10/22/2009 8,665.05 8,665.05 4,042.00 866.00 4 sesel Symo Pov 10/22/2009 10/22/2009 7,200.00 7,200.00 7,200.00 7,200.00 3 stock Elsosure 11/1/2009 11/1/2009 7,200.00 7,200.00 4,042.00 4,042.00 3 stock Elsosure 11/1/2009 11/1/2009 11/1/2009 11/1/2009 11/1/2009 4,155.00 2,240.00 4,155.00 2,340.00	360 Wall Mounted Enclosure			7,200.00			7,200.00	2,280.00	480.00		2,760.00
isel Symo Pov 10/12009	361 8-1/2' Western Ultramou			5,309.25			5,309.25	2,522.00	531.00		3,053.00
4. csel Symo Pov 10/22/2009 8,665.05 8,665.05 4,042.00 866.00 4,042.00 866.00 4,042.00 8,665.05 4,042.00 866.00 4,042.00 866.00 3,330 4,042.00 866.00 3,330 3,330 3,222.00 3,320 3,330 3,222.00 3,222.00 3,222.00 3,222.00 3,222.00 3,222.00 3,222.00 3,222.00 3,222.00 3,222.00 4,155.00 2,232.00 4,155.00 2,232.00 2,232.00 4,155.00 2,232.00 </td <td>362 Benshaw Softstart 700H</td> <td></td> <td></td> <td>35,257.43</td> <td></td> <td></td> <td>35,257.43</td> <td>11,163.00</td> <td>2,350.00</td> <td></td> <td>13,513.00</td>	362 Benshaw Softstart 700H			35,257.43			35,257.43	11,163.00	2,350.00		13,513.00
csel Symo Pov 10/22/2009 10/22/2009 5,721.30 5,721.30 2,669.00 572.00 3 sted Enclosure 11/1/2009 11/1/2009 11/1/2009 11/1/2009 11/1/2009 4,155.00 2,360.00 4,155.00 2,360.00 2,360.00 2,360.00 2,360.00 2,360.00 2,360.00 2,360.00 3,360.00	364 Vertical Diesel Symo Po			8,665.05			8,665.05	4,042.00	866.00		4,908.00
tted Enclosure 11/1/2009 11/1/2009 7,200.00 2,240.00 480.00 2,240.00 4,155.00 2,390.00 4,155.00 2,390.00 2,390.00 4,155.00 2,390.00 2,390.00 2,390.00 2,390.00 2,390.00 2,390.00 2,390.00 2,390.00 2,390.00 2,390.00 2,390.00 2,390.00 2,390.00 2,390.00 2,390.00 3,309.00	365 Vertical Diesel Symo Po			5,721.30			5,721.30	2,669.00	572.00		3,241.00
S50HP Fan at C 11/1/2009 11/1/2009 83,092.63 83,092.63 19,390.00 4,155.00 23, 23,00 Transformer3 P 11/1/2009 11/1/2009 11/1/2009 11/1/2009 11/1/2009 11/1/2009 11/1/2009 11/1/2009 11/1/2009 3,1986.00 31,986.00 31,986.00 31,986.00 7,462.00 1,590.00 9	366 Wall Mounted Enclosure			7,200.00			7,200.00	2,240.00	480.00		2,720.00
ransformer3 P 11/1/2009 11/1/2009 11/1/2009 11/1/2009 462.00 2. D Motors 350F 11/1/2009 11/1/2009 61,000.00 61,000.00 14,233.00 3,050.00 17, witch Disconn 11/1/2009 11/1/2009 8,791.96 8,791.96 2,735.00 386.00 3, GE Pump Mot 11/1/2009 11/1/2009 31,986.00 31,986.00 7,462.00 1,599.00 9,	367 Spendrup 350HP Fan at			83,092.63			83,092.63	19,390.00	4,155.00		23,545.00
D Motors 350F 11/1/2009 11/1/2009 61,000.00 61,000.00 17, 8,791.96 8,791.96 2,735.00 586.00 3,986.00 3,986.00 31,986	368 500KVA Transformer3 1			18,465.41			18,465.41	2,156.00	462.00		2,618.00
witch Disconn 11/1/2009 11/1/2009 8,791.96 8,791.96 3.735.00 386.00 3.7462.00 3.7462.00 3.799.00 9.7462.00 3.799.00 9.790.00	369 Baldor VFD Motors 350			61,000.00			61,000.00	14,233.00	3,050.00		17,283.00
GE Pump Mot 11/1/2009 11/1/2009 31,986.00 31,986.00 9.	370 Benshaw Switch Discon			8,791.96			8,791.96	2,735.00	286.00		3,321.00
	371 GE700HP GE Pump Mc			31,986.00			31,986.00	7,462.00	1,599.00		9,061.00
	2/2015 1:35:16 PM										Page 7

9.9 (1000-criptions) Acquirer In Service Reginning Page (1000-criptions) Reginning Typ (2000-criptions) Reginning Typ (2000-criptions) Reginning Typ (2000-criptions) Reginning Typ (2000-criptions) Page (2000-criptions) </th <th>000 - SD Science & Technology Authority</th> <th>/ Authority</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	000 - SD Science & Technology Authority	/ Authority									
TOTAL DESIGNATION OF TAXABLE AND ADDRESS OF TAXABLE ADDRESS OF TAXABLE AND ADDRESS OF TAXABLE ADDRESS OF TAXABLE AND ADDRESS OF TAXABLE A	Sys ID Description	Acquire		Beginning	Additions	Retired	Ending		TD 6/30/2015	Retired	Ending
377.3.CHE MAN	40 - Equipment & Fixtures										
379.5G ENDORS Statisticaler I 207200 1271000 1271000 1271000 1271000 1271000 1271000 1271000 1271000 1271000 1271000 1271000 1271000 127100	372 350HP Spendrup Far			106,641.04			106,641.04	24,883.00	5,332.00		30,215.00
375 GE 8000 Series Brender 1,320,099 1,	374 S&C PMX Modular			27,059.00			27,059.00	8,268.00	1,804.00		10,072.00
377 CH Special Savind 1220 DB 1220 DB </td <td>375 GE 8000 Series Brea</td> <td></td> <td></td> <td>6,464.69</td> <td></td> <td></td> <td>6,464.69</td> <td>1,975.00</td> <td>431.00</td> <td></td> <td>2,406.00</td>	375 GE 8000 Series Brea			6,464.69			6,464.69	1,975.00	431.00		2,406.00
377 (C) A Beadley Powerflick. 127,2000 12,02000 15,003.4 15,003.4 45,605.0 10,050.0 378 (Malit Media Sami Pinet. 12,02000	376 GE Spectra Series Sv			7,239.85			7,239.85	2,214.00	483.00		2,697.00
379 Multi Media Sand Filter; 1272000 1272000 1272000 1272000 1272000 1272000 1272000 1272000 1272000 1272000 1272000 1272000 1272000 1272000 1272000 127200 1272000 127	377 (2) A Bradley Power			15,068.40			15,068.40	4,606.00	1,005.00		5,611.00
397 Telephone System Upgea 12772099 12772049 17771214 8117204 177110 399 Telephone System Upgea 12772099 177204 177104 177104 177104 177100 177104	378 Multi Media Sand Fi			615,021.84			615,021.84	56,375.00	12,300.00		68,675.00
359 Delanoser Controls HVAC 11/12/10 11/12/20 11/12/20 11/12/20 18/92/10 18/92/10 18/92/10 18/92/20 18/92/20 18/92/20 18/92/20 18/92/20 11/12/20 11	397 Telephone System Up			17,712.14			17,712.14	8,117.00	1,771.00		9,888.00
380 Jahneson Controls HVAC I III 7010 J II 2010 J I 2010 J I 3086.00 J I 483.00 J I 483.00 J I 1 483.00	379 Johnson Controls HV			18,921.00			18,921.00	8,514.00	1,892.00		10,406.00
381 HVAC Air Handling Uni 11/2010 11/20	380 Johnson Controls HV			20,427.00			20,427.00	9,193.00	2,043.00		11,236.00
382 Chemical Outdoor Stong 115/2010 128/2010 28,896 35 6,494,00 1,443.00 13,13,13 383 HydraulicClambe/Procurs 125/2010 22,824,00 13,163.08 8,312.00 1,136.00 7,7 385 HydraulicClambe/Procurs 21/2010 21/2010 21/2010 13,163.08 8,812.00 1,136.00 7,7 386 HydraulicClambe/Procurs 21/2010 21/2010 21/2010 21/2010 1,316.00 1,316.00 7,7 386 HydraulicClambe/Procurs 21/2010 21/2010 13,524.00 1,316.00 1,316.00 7,7 387 HydraulicClambe/Procurs 21/2010 21/2010 21/2010 21/2010 21/2010 21/2010 7,7 387 HydraulicClambe/Procurs 21/2010	381 HVAC Air Handling			20,862.92			20,862.92	9,387.00	2,086.00		11,473.00
38.1 Hydraulic Clamb Pineuma 1752/2010 1752/2	382 Chemical Outdoor St			28,869.55			28,869.55	6,494.00	1,443.00		7,937.00
384 Fire Pump 21/2010 21/2010 21/2010 13163 08 5.812.00 1316.00 7.7 386 Fokey Pump 21/2010 21/2010 21/2010 21/2010 1346.30 1316.00 1316.00 7.7 386 Hyskey Pump 21/2010 21/2010 21/2010 21/2010 21/2010 136.04 7.2 7.2 7.7 386 Hyskey Pump 336 Hyskey Pump 21/2010 <t< td=""><td>383 HydraulicClamb/Pne</td><td></td><td></td><td>26,940.00</td><td></td><td></td><td>26,940.00</td><td>11,898.00</td><td>2,694.00</td><td></td><td>14,592.00</td></t<>	383 HydraulicClamb/Pne			26,940.00			26,940.00	11,898.00	2,694.00		14,592.00
38 St Joekey Pump 21/2010 21/2010 13163 08 13163 08 13163 08 13163 08 13163 08 13163 08 13163 08 13163 08 13163 08 13163 08 13163 08 13163 08 13163 08 13160 0 13163 08 13160 0 <th< td=""><td>384 Fire Pump</td><td>2/1/2010</td><td></td><td>13,163.08</td><td></td><td></td><td>13,163.08</td><td>5,812.00</td><td>1,316.00</td><td></td><td>7,128.00</td></th<>	384 Fire Pump	2/1/2010		13,163.08			13,163.08	5,812.00	1,316.00		7,128.00
386 HY-25XLT-2-1/2* Sq. Dr. 24/2010 24/2010 13.957.43 61/66.00 1396.00 7.7 387 HY-25XLT-2-1/2* Sq. Dr. 21/52010 <	385 Jockey Pump	2/1/2010		13,163.08			13,163.08	5,812.00	1,316.00		7,128.00
399 Telephone System LUX; 215/2010 9,218.04 4,072.00 922.00 4,4 387 Wall Mounted Enclosure 31/2010 31/2010 7,200.00 2,080.00 2,880.00 480.00 2 388 S&C PMX Modular Met 31/2010				13,957.43			13,957.43	6,166.00	1,396.00		7,562.00
387 Wall Mounted Enclosure 31/2010 31/2				9,218.04			9,218.04	4,072.00	922.00		4,994.00
388 S&C PMX Modular Meta 311/2010 31/12				7,200.00			7,200.00	2,080.00	480.00		2,560.00
389 GE Switchgear 3/1/2010 <td></td> <td></td> <td></td> <td>27,059.00</td> <td></td> <td></td> <td>27,059.00</td> <td>7,817.00</td> <td>1,804.00</td> <td></td> <td>9,621.00</td>				27,059.00			27,059.00	7,817.00	1,804.00		9,621.00
atomatisky Mr. 31/12010		3/1/2010		58,844.32			58,844.32	17,000.00	3,923.00		20,923.00
4. coxASI IS SCI 31/12010 31/12010 31/12010 31/12010 31/12010 4. seed to the second of	390 MQ Generator 15KV			10,117.00			10,117.00	4,385.00	1,012.00		5,397.00
4. syz4.sG 8.924,5G 3.865.0G 892.0G 4. 4.ytorc Pump 3.71/2010 3.11/2010 5.108.37 5.108.37 2.172.0G 511.0G 2. 4ytorc Pump 3.39/2010 3.39/2010 5.108.37 116,000.0G 47,367.0G 11,600.0G 5.88 B. System Upgra 6.39/2010 6.39/2010 7.200.0G 1,920.0G 486.0G 2. System Upgra 6.39/2010 6.39/2010 6.483.9G 6.683.9G 2.672.0G 440.0G 4. System Ross I 6.39/2010 6.39/2010 6.39/2010 6.583.9G 2.672.0G 486.0G 2. Abounced Met 711/2010 71/2010 7.200.0G 1,920.0G 486.0G 2. Abounced Met 711/2010 71/2010 7.200.0G 1,920.0G 486.0G 2. Abounced Met 711/2010 71/2010 7.200.0G 1,920.0G 480.0G 2. Abounced Sizer S30 D 81/2010 87.2010 8.550.0G 2.134.0G 3.09.0G 1,897.0G	391 Atlas Copco XAS 18			8,924.50			8,924.50	3,865.00	892.00		4,757.00
Hytore Pump 3/30/2010 5,108.37 5,108.37 5,108.37 5,110.00 511.00 440.00 511.00 511.00 440.00 440.00 511.00 440.00	392 Atlas Copco XAS 18			8,924.50			8,924.50	3,865.00	892.00		4,757.00
mm 5/31/2010 5/31/2010 116,000.00 47,367.00 116,000.00 5.88 Emclosed Fus 6/30/2010 6/30/2010 7,200.00 1,920.00 480.00 2 System Upgra- Mounted Met 6/30/2010 6/30/2010 6/30/2010 6/30/2010 8,451.00 8,451.00 4 4 System Ross I Mounted Met 7/1/2010 7/200.00 6,683.90 2,683.90 2,683.90 8,451.00 4 Mounted Met 7/1/2010 7/1/2010 7/200.00 1,920.00 480.00 2 Mounted Met 7/1/2010 7/200.00 5,500.00 2,683.90 2,683.90 3,303.00 4 System Ross I assor 125Hp F 7/1/2010 7/200.00 3,303.04 12,937.00 3,303.00 16,000 2,100.00 1,820.00 2,100.00 2,100.00 2,100.00 1,820.00 2,100.00 2,100.00 2,100.00 2,100.00 2,100.00 2,100.00 2,100.00 2,100.00 2,100.00 2,100.00 2,100.00 2,100.00 2,100.00 2,100.	393 115V PSI Hytorc Pui			5,108.37			5,108.37	2,172.00	511.00		2,683.00
Enclosed Fus 6/30/2010 6/30/2010 7,200.00 7,200.00 4,80.00 4,80.00 4,80.00 4,80.00 4,80.00 4,80.00 4,80.00 4,80.00 4,80.00 4,80.00 4,80.00 4,80.00 4,80.00 3,380.00 4,80.00 3,380.00 4,80.00 3,380.00 4,80.00 3,380.00 4,80.00 3,380.00 4,80.00 3,380.00 4,80.00 3,380.00 4,80.00 3,380.00 4,80.00 3,380.00 4,80.00 3,380.00 2,152.00 4,80.00 2,270.00 2,580.00 3,380.00 <td>394 Clean Room</td> <td>5/31/2010</td> <td></td> <td>116,000.00</td> <td></td> <td></td> <td>116,000.00</td> <td>47,367.00</td> <td>11,600.00</td> <td></td> <td>58,967.00</td>	394 Clean Room	5/31/2010		116,000.00			116,000.00	47,367.00	11,600.00		58,967.00
System Upgra 6/30/2010 6/30/2010 8,451.00 8,451.00 4,451.00 4,451.00 4,451.00 4,451.00 4,451.00 4,451.00 4,451.00 4,451.00 4,451.00 4,451.00 4,451.00 4,451.00 4,451.00 4,451.00 4,451.00 4,451.00 4,451.00 4,480.00 3,240.00 2,520.00 2,520.00 2,520.00 2,520.00 2,154.00 4,80.00 2,220.00 2,154.00 4,80.00 2,220.00 2,154.00 2,50.00 2,220.00 2,50.00 2,220.00 2,50.00 2,220.00 2,50.0	395 S&C Metal Enclosed			7,200.00			7,200.00	1,920.00	480.00		2,400.00
System Ross I 6/30/2010 6/683.90 6,683.90 6,683.90 3. Mounted Met 7/1/2010 7/10010 7/200.00 6,683.90 2,672.00 68.00 3. Adminted Met 7/1/2010 7/10010 7/200.00 7,200.00 1,920.00 480.00 2 at Machine Pul 7/29/2010 7/29/2010 3,500.00 3,500.00 2,154.00 350.00 2 essor 125HP F 9/1/2010 9/1/2010 18,515.00 18,515.00 1,825.00 1,825.00 2 Anoullar Met 9/1/2010 9/16/2010 9/16/2010 9/16/2010 9/183.36 3,443.00 9/18.00 4 Phone/Data Sys 9/24/2010 9/25/2010 9/183.36 9/183.36 3,135.00 9/185.00 3	398 Telephone System U			8,451.00			8,451.00	3,380.00	845.00		4,225.00
Machine Put Machine	400 Telephone System R.	-		6,683.90			6,683.90	2,672.00	00.899		3,340.00
ut Machine Pur Air Sylvoid 5,500.00 5,500.00 5,500.00 5,500.00 16,154.00 550.00 16,154.00 550.00 2,154.00 550.00 2,154.00 550.00 1,650.00 1,650.00 1,650.00 1,650.00 1,650.00 1,650.00 1,650.00 1,650.00 1,650.00 1,650.00 1,850.00 8 Sroom for Skid 9/3/2010 9/3/2010 5,925.00 5,925.00 2,705.00 1,804.00 8 8 Modular Mcts 9/16/2010 9/16/2010 9/183.36 9/183.36 9/183.36 9/183.36 9/183.00 9/183.00 4 UG Phone/Data Sys 10/25/2010 10/25/2010 8,550.63 3,135.00 3,135.00 3	426 S&C Wall-Mounted			7,200.00			7,200.00	1,920.00	480.00		2,400.00
idsteer S300 D 8/2/2010 8/2/2010 3,030.64 33,030.64 12,937.00 3,303.00 16. essor 125HP F 9/1/2010 9/1/2010 18,515.00 1,852.00 8 3room for Skid 9/3/2010 9/3/2010 2,925.00 2,090.00 1,804.00 8 3modular Meta 9/16/2010 9/16/2010 27,059.00 27,059.00 6,765.00 1,804.00 8 Phone/Data Sys 9/24/2010 9/183.36 9/183.36 9/183.36 9/183.36 9/183.00 4 UG Phone/Da 10/25/2010 10/25/2010 8,550.63 3,135.00 855.00 3	430 Chem Grout Machin			5,500.00			5,500.00	2,154.00	550.00		2,704.00
Ssor I25HP F 9/1/2010 9/1/2010 9/1/2010 1,852.00 1,852.00 8 3room for Skid 9/3/2010 9/3/2010 5,925.00 5,925.00 27,059.00 5,925.00 27,059.00 1,804.00 8 Modular Mets 9/16/2010 9/16/2010 9/183.36 9/24/2010 9/183.36 9/18	420 Bobcat Skidsteer S30			33,030.64			33,030.64	12,937.00	3,303.00		16,240.00
3room for Skid 9/3/2010 9/3/2010 5,925.00 5,925.00 2,270.00 592.00 2 Modular Met. 9/16/2010 9/16/2010 27,059.00 6,765.00 1,804.00 8 Phone/Data Sys 9/24/2010 9/183.36 9,183.36 9,183.36 918.00 4 UG Phone/Da 10/25/2010 10/25/2010 8,550.63 3,135.00 855.00 3	423 Air Compressor 125			18,515.00			18,515.00	7,099.00	1,852.00		8,951.00
Modular Metz 9/16/2010 9/16/2010 9/16/2010 1,804.00 8. Phone/Data Sys 9/24/2010 9/24/2010 9/183.36 9/183.36 9/183.36 9/183.00 4. UG Phone/Da 10/25/2010 10/25/2010 8,550.63 8,550.63 3,135.00 855.00 3	422 JD Angle Broom for			5,925.00			5,925.00	2,270.00	592.00		2,862.00
Phone/Data Sys 9/24/2010 9/183.36 9,183.36 9,183.36 9,18.00 4, UG Phone/Da 10/25/2010 10/25/2010 8,550.63 3,135.00 855.00 3	421 S&C PMX Modular			27,059.00			27,059.00	6,765.00	1,804.00		8,569.00
. UG Phone/Da 10/25/2010 10/25/2010 8,550.63 8,550.63 3,135.00 855.00 3	439 Ross Dry Phone/Dat			9,183.36			9,183.36	3,443.00	918.00		4,361.00
	440 Ross Shaft UG Phon		0 10/25/2010	8,550.63			8,550.63	3,135.00	855.00		3,990.00
	Md 91-35-15 100/6										Page 8

S-00	000 - SD Science & Technology Authority	ority									
Sys	Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning Y	YTD 6/30/2015	Retired	Ending
0-E	140 - Equipment & Fixtures										
4	441 Yates E&O Phone/Data S	11/30/2010	11/30/2010 11/30/2010	12,314.24			12,314.24	4,411.00	1,231.00		5,642.00
4	424 Radon Monitor Alphagua	12/1/2010	12/1/2010	15,028.98			15,028.98	5,386.00	1,503.00		6,889.00
4	416 Locomotive 1975 8 Ton #	1/27/2011	1/27/2011	130,000.00			130,000.00	63,451.00	18,571.00		82,022.00
4	417 Locomotive 1975 8 Ton #	1/27/2011	1/27/2011	130,000.00			130,000.00	63,451.00	18,571.00		82,022.00
4	418 Loader 2007 LT 210 #07.	1/27/2011	1/27/2011	195,000.00			195,000.00	66,625.00	19,500.00		86,125.00
4	427 Shotcrete Mixing Auger	2/28/2011	2/28/2011	18,450.00			18,450.00	6,150.00	1,845.00		7,995.00
4	438 Admin Building Phone/D	3/1/2011	3/1/2011	3,876.26			3,876.26	1,293.00	388.00		1,681.00
4	432 Loader 2007 LT350 #07-	5/31/2011	5/31/2011	230,000.00			230,000.00	70,917.00	23,000.00		93,917.00
4	451 JD XAS 375 CFM Air Co	9/1/2011	9/1/2011	27,900.00			27,900.00	7,905.00	2,790.00		10,695.00
4	469 Transformer 45KVA 600	9/1/2011	9/1/2011	5,298.00			5,298.00	374.00	132.00		506.00
.7	453 Battery Charger for 9-Tor	1/1/2012	1/1/2012	6,127.78			6,127.78	1,532.00	613.00		2,145.00
4	455 TEI 260 Hydraulic Percus	1/1/2012	1/1/2012	32,949.71			32,949.71	8,237.00	3,295.00		11,532.00
7	454 Lefon Portable Electric P	1/4/2012	1/4/2012	8,218.50			8,218.50	2,055.00	822.00		2,877.00
4	461 Lull 54' Telescopic Forkli	1/12/2012	1/12/2012	52,500.00			52,500.00	13,125.00	5,250.00		18,375.00
4	456 Ross Shaft Work Deck	1/20/2012	1/20/2012	16,395.00			16,395.00	3,963.00	1,640.00		5,603.00
7	459 JD 315 Skid Steer W/Buc	2/10/2012	2/10/2012	25,234.00			25,234.00	6,097.00	2,523.00		8,620.00
7	457 GE 1500KVA 480/277V	3/1/2012	3/1/2012	102,230.90			102,230.90	5,964.00	2,556.00		8,520.00
4	458 GE Switchboard 1500KV	3/1/2012	3/1/2012	20,762.10			20,762.10	3,229.00	1,384.00		4,613.00
7	462 Yates Hoist South Cage	5/1/2012	5/1/2012	123,484.05			123,484.05	26,754.00	12,348.00		39,102.00
7	480 Rope Dog System Yates :	5/1/2012	5/1/2012	69,642.40			69,642.40	15,089.00	6,964.00		22,053.00
4.1	599 Yates Rope Dog System	5/1/2012	5/1/2012	227,216.99			227,216.99	41,721.00	19,256.00		60,977.00
4	463 Caterpillar Diesel Genera	5/3/2012	5/3/2012	54,313.83			54,313.83	11,767.00	5,431.00		17,198.00
1	464 Profi 1-Ton Air Hoist 25'	5/8/2012	5/8/2012	6,970.00			6,970.00	1,510.00	00'.269		2,207.00
4	465 Profi 1-Ton Air Hoist 25'	5/8/2012	5/8/2012	6,970.00			6,970.00	1,510.00	00.769		2,207.00
4	470 S&C Metal Enclosed Swi	6/1/2012	6/1/2012	21,656.40			21,656.40	3,008.00	1,444.00		4,452.00
4	471 S&C Metal Enclosed Swi	6/1/2012	6/1/2012	21,656.40			21,656.40	3,008.00	1,444.00		4,452.00
4	472 S&C Metal Enclosed Swi	6/1/2012	6/1/2012	21,656.40			21,656.40	3,008.00	1,444.00		4,452.00
4	473 S&C Metal Enclosed Swi	6/1/2012	6/1/2012	21,656.40			21,656.40	3,008.00	1,444.00		4,452.00
4	474 S&C Metal Enclosed Swi	6/1/2012	6/1/2012	21,656.40			21,656.40	3,008.00	1,444.00		4,452.00
4	475 Multilin PQM II Meter fo	6/1/2012	6/1/2012	5,389.00			5,389.00	748.00	359.00		1,107.00
4	466 Scanstation C10 Laser Sc	6/5/2012	6/5/2012	59,609.44			59,609.44	12,419.00	5,961.00		18,380.00
7	467 Refuge Chamber 6X6X1	6/19/2012	6/19/2012	38,105.00			38,105.00	3,810.00	1,905.00		5,715.00
7	468 Refuge Chamber 6X6X1	6/19/2012	6/19/2012	38,105.00			38,105.00	3,810.00	1,905.00		5,715.00
4	496 Justice Fire & Safety Pan	7/1/2012	7/1/2012	7,588.00			7,588.00	1,012.00	206.00		1,518.00
4	497 Quincy Air Regulator	7/1/2012	7/1/2012	17,788.76			17,788.76	3,558.00	1,779.00		5,337.00

9.1 Dioches Chapter (1875) Acquire (1854)	000 - SD Scien	000 - SD Science & Technology Authority	ority									
- 68 Council Michael Antibus 71 (2012) 71 (20	Sys ID Des	cription	Acquire	In Service	Beginning	Additions	Retired	Ending		YTD 6/30/2015	Retired	Ending
99 Channel Ackeen Rolley 7172012 7172012 838000 198000 198000 199000 199000 199000 199000 19900	40 - Equipme	nt & Fixtures										
600 Selection Controls Act Fate 71/2012 <th< td=""><td>498 Con</td><td>rell McKeon Rollup I</td><td>7/1/2012</td><td>7/1/2012</td><td>8,980.00</td><td></td><td></td><td>8,980.00</td><td>1,198.00</td><td>299.00</td><td></td><td>1,797.00</td></th<>	498 Con	rell McKeon Rollup I	7/1/2012	7/1/2012	8,980.00			8,980.00	1,198.00	299.00		1,797.00
Story Outboard Currieds Air His 71/2012 21/2012 25/97/100 25/97/1	499 Rhe	em Water Heater	7/1/2012	7/1/2012	10,070.00			10,070.00	2,014.00	1,007.00		3,021.00
Style Definions Centrels Art His 7170212 7170212 21,539.00 4,306.00 21,53.00 Styl Definions Centrels Art His 7170212 7170212 71,20202 71,0021 21,530.00 4,306.00 21,53.00 Styl Definions Centrels Art His 7170212 7170212 71,744.00 71,002.00	500 Johr	150n Controls Air Har	7/1/2012	7/1/2012	25,071.00			25,071.00	5,014.00	2,507.00		7,521.00
State Solutions Connected Art Has 17/2012 17/20	501 John	150n Controls Air Hai	7/1/2012	7/1/2012	21,529.00			21,529.00	4,306.00	2,153.00		6,459.00
Sto Johnson Controls Ari Haila 71/2012 71/2012 71/2012 71/2012 71/2010	502 John	15on Controls Air Har	7/1/2012	7/1/2012	21,529.00			21,529.00	4,306.00	2,153.00		6,459.00
Sol Johnson Controls Chille 771/2012 71	503 John	1son Controls Air Har	7/1/2012	7/1/2012	17,039.00			17,039.00	3,408.00	1,704.00		5,112.00
SSI Jahnson Controls Chiller 7/17/2012 7/17/2012 7/12/2012 1/12/2010 1/12/2	504 Johr	15on Controls Chiller	7/1/2012	7/1/2012	17,245.00			17,245.00	3,448.00	1,724.00		5,172.00
SSE (Althorson Controlle, Air Hall 711/2012	505 Johr	1son Controls Chiller	7/1/2012	7/1/2012	17,245.00			17,245.00	3,448.00	1,724.00		5,172.00
S25 Line Power Transformers 71/2012 5,000,00 5,000,00 250,00 125,00 S26 Line Power Transformers 81/2012 81/2012 1,920,00 1,920,00 195,00 195,00 458 KM Holst 17 Tran 81/2012 81/2012 1,920,00 1,920,00 1,920,00 1,920,00 490 Skyclimber Suspended M 87/2012 82/2012 2,156,36 6,712.86 6,717.86 7,172.80 1,712.00 1,951,00 490 Skyclimber Electric Hols 96/2012 96/2012 6,586.85 1,286.00 6,590.00 1,951,00 491 Skyclimber Electric Hols 96/2012 96/2012 6,586.85 1,208.00 6,590.00 1,951,00 493 Skyclimber Electric Hols 96/2012 96/2012 6,586.85 1,208.00 6,590.00 1,950,00 1,950,00 494 Skyclimber Electric Hols 96/2012 96/2012 7,026.22 7,028.00 6,586.85 1,208.00 659,00 1,950,00 494 Skyclimber Electric Hols 96/2012 96/2012 7,026.22 1,208.00 659,00 1,950,00	506 Johr	15on Controls Air Har	7/1/2012	7/1/2012	17,436.00			17,436.00	3,488.00	1,744.00		5,232.00
SSE LNY Trank Concrete Pad 81/2012 81/2012 7920.00 7590	525 Line	Power Transformers	7/1/2012	7/1/2012	5,000.00			5,000.00	250.00	125.00		375.00
494 R&M Hoist 73 Ton 482 2012 8/22012 19;50;30 19;51;00 21;56;03 145;04;04 145;10 145;	526 LN	Tank Concrete Pad	8/1/2012	8/1/2012	7,920.00			7,920.00	759.00	396.00		1,155.00
458 R&M Holest 10 Tran 452 R&M Holest 10 Tran 41,200 21,560,50 41,1200 21,560,00 490 Skyclimber Electric Holes 490 Skyclimber Electric Holes 96,2012 96	484 R&I	M Hoist 7.5 Ton	8/2/2012	8/2/2012	19,510,50			19,510.50	3,739.00	1,951.00		5,690.00
490 Skyclimber Electric Hoise 96/2012 96/2012 67/172 86 67/172 86 67/172 86 67/172 86 67/172 86 67/172 86 67/170 80 67/170 9 17/10 9 <td>485 R&I</td> <td>M Hoist 10 Ton</td> <td>8/2/2012</td> <td>8/2/2012</td> <td>21,560.50</td> <td></td> <td></td> <td>21,560.50</td> <td>4,132.00</td> <td>2,156.00</td> <td></td> <td>6,288.00</td>	485 R&I	M Hoist 10 Ton	8/2/2012	8/2/2012	21,560.50			21,560.50	4,132.00	2,156.00		6,288.00
491 Skyclimber Electric Hois 9/62012 9/62012 6.586.85 1.208.00 659.00 492 Skyclimber Electric Hois 9/62012 9/62012 6.586.85 1.208.00 659.00 492 Skyclimber Electric Hois 9/62012 9/62012 6.586.85 1.208.00 659.00 494 Skyclimber Electric Hois 9/62012 9/62012 6.586.85 6.586.85 1.208.00 659.00 494 Skyclimber Electric Hois 9/62012 9/62012 6.586.85 1.208.00 659.00 1.208.00 495 Kyclimber Electric Hois 9/62012 9/62012 70.252.2 1.208.00 659.00 1.208.00 485 Loran Calling Mount 1.017.2012 1.0	490 Sky	climber Suspended W	9/6/2012	9/6/2012	67,172.86			67,172.86	12,315.00	6,717.00		19,032.00
492 Skyclimber Electric Hois 96/2012 96/2012 6.586.83 6.586.85 1,208.00 659.00 493 Skyclimber Electric Hois 96/2012 6.586.83 6.586.83 1,208.00 659.00 493 Skyclimber Electric Hois 96/2012 6.586.83 6.586.83 1,208.00 659.00 494 Skyclimber Electric Hois 96/2012 70,226.2 70,226.22 1,208.00 659.00 486 LUX Water Treatment S 91/2012 147.82.73 1,218.00 869.00 22 488 LUX Water Treatment S 92/2012 30,837.94 7,709.00 4,405.00 23 488 LUX Water Treatment S 91/2012 10/2012 10/2012 10/2012 10/2012 30,837.94 7,709.00 4,405.00 23 488 LUX Water Treatment S 10/2012 10/12012 21,000.00 21,000.00 21,000.00 3,485.00 3,485.00 3,485.00 3,485.00 3,485.00 3,485.00 3,485.00 3,485.00 3,485.00 3,485.00 3,485.00 3,485.00 3,485.00 3,485.00 3,485.00 3,485.00		climber Electric Hoisi	9/6/2012	9/6/2012	6,586.85			6,586.85	1,208.00	659.00		1,867.00
493 Skyclimber Electric Hois of 9/62012 9/62012 9/62012 6,586.85 1,208.00 659.00 494 Skyclimber Electric Hois of 9/62012 9/62012 6,586.85 1,208.00 659.00 10,032.00 488 Uses Cage Work Dock (F) 9/122012 <td></td> <td>climber Electric Hoist</td> <td>9/6/2012</td> <td>9/6/2012</td> <td>6,586.85</td> <td></td> <td></td> <td>6,586.85</td> <td>1,208.00</td> <td>659.00</td> <td></td> <td>1,867.00</td>		climber Electric Hoist	9/6/2012	9/6/2012	6,586.85			6,586.85	1,208.00	659.00		1,867.00
494 Skyclimber Electric Hois 9/6/2012 6/58.68 6/58.68 6/58.68 6/58.68 6/58.00 6/59.00 494 Skyclimber Electric Hois 9/6/2012		climber Electric Hoisi	9/6/2012	9/6/2012	6,586.85			6,586.85	1,208.00	00.659		1,867.00
489 Ross Cage Work Deek 9/12/2012 </td <td></td> <td>climber Electric Hoist</td> <td>9/6/2012</td> <td>9/6/2012</td> <td>6,586.85</td> <td></td> <td></td> <td>6,586.85</td> <td>1,208.00</td> <td>659.00</td> <td></td> <td>1,867.00</td>		climber Electric Hoist	9/6/2012	9/6/2012	6,586.85			6,586.85	1,208.00	659.00		1,867.00
Treatment Ss 9/25/2012 9/25/2012 147,582.73 147,582.73 17,218.00 9,839.00 27 Work Deck (f. 9/28/2012 9/25/2012 30,837.94 30,837.94 7,709.00 4,405.00 10 Ceiling Mount 10/1/2012 10/1/2012 28,175.00 30,450.00 28,175.00 3,645.00 10 cisting Mount 10/1/2012 10/1/2012 28,175.00 20,000.00 30,450.00 20,000.00 3,645.00 </td <td></td> <td>s Cage Work Deck</td> <td>9/12/2012</td> <td>9/12/2012</td> <td>70,226.22</td> <td></td> <td></td> <td>70,226.22</td> <td>18,392.00</td> <td>10,032.00</td> <td></td> <td>28,424.00</td>		s Cage Work Deck	9/12/2012	9/12/2012	70,226.22			70,226.22	18,392.00	10,032.00		28,424.00
Work Deck (I 9/28/2012 9/28/2012 3/6,837.94 3/6,837.94 7/709.00 4,405.00 17 Celling Mount 10/1/2012 10/1/2012 28,175.00 30,450.00 2,8175.00 4,931.00 2,818.00 17 Celling Mount 10/1/2012 10/1/2012 21,700.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 Steer W/Forks 10/1/2012 10/1/2012 21,000.00 21,000.00 3,0450.00 2,100.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,000.00	486 LU3	X Water Treatment Sy	9/25/2012	9/25/2012	147,582.73			147,582.73	17,218.00	9,839.00		27,057.00
celling Mount 10/1/2012 10/1/2012 28,175.00	483 Nor	th Skip Work Deck (F	9/28/2012	9/28/2012	30,837.94			30,837.94	7,709.00	4,405.00		12,114.00
Sequence Nite of Not 2011 10/12012 10/11/2012 30,450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,0450.00 3,040.00 3,040.00 3,040.00 3,000.00 3,000.00 3,000.00 3,000.00 4,167.00 8,333.00 (5,000.00) 66 4,167.00 8,333.00 (5,000.00) 66 4,167.00 2,100.00 60 7,415.00 <	487 Jib (Crane Ceiling Mounte	10/1/2012	10/1/2012	28,175.00			28,175.00	4,931.00	2,818.00		7,749.00
Steet W/Forks 10/19/2012 11/000.00 3,500.00 2,100.00 Towable Lift 10/19/2012 10/19/2012 25,000.00 (5,000.00) 3,500.00 2,100.00 Towable Lift 10/19/2012 10/19/2012 25,000.00 (5,000.00) 364,225.82 40,470.00 24,187.00 66 Transformer 17/10/2012 17/10/2012 8,000.00 317.00 24,000.00 741.00 24,282.00 66 Air Hoist 25' I 11/16/2013 11/16/2013 11/16/2013 11/16/2013 7415.07 1,050.00 741.00 28,434.00 66 Diesel Genera 21/12/2013 21/12/2013 28,434.00 20,856 1,050.00 741.00	488 Jib (Crane Ceiling Mounte	10/1/2012	10/1/2012	30,450.00			30,450.00	5,329.00	3,045.00		8,374.00
Towable Lift 10/19/2012 25,000.00 (25,000.00) 0.00 4,167.00 833.00 (5,000.00) Tank 4850 10/22/2012 10/22/2012 364,225.82 40,470.00 24,282.00 66 TTansformer 12/10/2012 12/10/2012 8,000.00 317.00 200.00 741.00 Azi Hoist 25°1 11/6/2013 11/6/2013 7,415.07 7,415.07 1,050.00 741.00 22,282.00 66 Dissel General 2/12/013 2/13/013 2,415.07 7,415.07 1,050.00 741.00 200.00 741.00 24.282.00 66 Dissel General 2/12/013 2/12/013 2,415.07 4,050.00 741.00 2,415.00 2,435.00 908.00 741.00 ge Area Coolin 2/12/013 2/12/013 9,085.67 9,085.67 9,085.67 9,085.67 9,085.67 9,085.67 9,085.67 9,085.67 9,085.67 9,085.67 17,040.00 2,414.00 1,704.00 9,080.00 2,414.00 1,704.00 2,262.00 2,262.00 <t< td=""><td>508 S20.</td><td>5 Skidsteer W/Forks</td><td>10/19/2012</td><td>10/19/2012</td><td>21,000.00</td><td></td><td></td><td>21,000.00</td><td>3,500.00</td><td>2,100.00</td><td></td><td>2,600.00</td></t<>	508 S20.	5 Skidsteer W/Forks	10/19/2012	10/19/2012	21,000.00			21,000.00	3,500.00	2,100.00		2,600.00
Tank 4850 10/22/2012 10/22/2012 364,225.82 40,470.00 24,282.00 66 Transformer 12/10/2012 12/10/2012 8,000.00 317.00 200.00 317.00 200.00 Air Hoist 25'1 1/16/2013 1/16/2013 7,415.07 1,050.00 7,415.07 4,028.00 28,43.00 28,434.00 28,636.00	509 JLG	T500 Towable Lift	10/19/2012	10/19/2012	25,000.00		(25,000.00)	0.00	4,167.00	833.00	(5,000.00)	0.00
Air Hoist 25'1 1/10/2012 12/10/2012 8,000.00 317.00 200.00 Air Hoist 25'1 1/16/2013 1/16/2013 1/16/2013 1/16/2013 7,415.07 1,050.00 741.00 Diesel Genera 2/1/2013 2/1/2013 2/1/2013 2/1/2013 9,085.66 9,085.66 9,085.67 1,287.00 908.00 ge Area Coolin 2/1/2013 2/1/2013 9,085.67 9,085.67 1,287.00 908.00 ge Area Coolin 2/1/2013 2/1/2013 1/7,040.00 9,085.67 1,287.00 908.00 ge Area Coolin 2/1/2013 1/7,040.00 9,085.67 1,287.00 908.00 ge Area Coolin 2/1/2013 1/7,040.00 17,040.00 2,414.00 1,704.00 sing Systems C 2/1/2013 2/1/2013 1/7,040.00 2,262.00 3,016.00 2,262.00	495 LU)	X Water Tank 4850	10/22/2012	10/22/2012	364,225.82			364,225.82	40,470.00	24,282.00		64,752.00
Air Hoist 25'l 1/16/2013 1/16/2013 7,415.07 7,415.07 1,050.00 741.00 Diesel Genera 2/1/2013 2/1,2013 28,434.00 28,434.00 28,434.00 28,434.00 2,843.00 ge Area Coolin 2/1/2013 2/1/2013 9,085.67 9,085.67 9,085.67 908.00 ge Area Coolin 2/1/2013 2/1/2013 9,085.67 9,085.67 9,085.67 908.00 ge Area Coolin 2/1/2013 2/1/2013 17,040.00 17,040.00 17,040.00 sing Systems C 2/1/2013 17,040.00 2,414.00 1,704.00 grame Garage I 2/26/2013 2/26/2013 22,621.00 3,016.00 2,262.00	524 Line	Power Transformer	12/10/2012	12/10/2012	8,000.00			8,000.00	317.00	200.00		517.00
Diesel Genera 2/1/2013 2/1/2013 2/8,434.00 28,434.00 4,028.00 2,843.00 ge Area Coolin 2/1/2013 2/1/2013 9,085.67 9,085.67 1,287.00 908.00 ge Area Coolin 2/1/2013 2/1/2013 9,085.67 1,287.00 908.00 ge Area Coolin 2/1/2013 2/1/2013 17,040.00 9,085.67 1,287.00 908.00 sing Systems C 2/1/2013 17,040.00 17,040.00 2,414.00 1,704.00 sing Systems C 2/1/2013 2/1/2013 17,040.00 2,414.00 1,704.00 frame Garage I 2/26/2013 2/26/2013 22,621.00 3,016.00 2,262.00	512 Prof	f 1Ton Air Hoist 25' l	1/16/2013	1/16/2013	7,415.07			7,415.07	1,050.00	741.00		1,791.00
ge Area Coolin 2/1/2013 2/1/2013 9,085.66 9,085.66 1,287.00 908.00 ge Area Coolin 2/1/2013 2/1/2013 9,085.67 9,085.67 1,287.00 908.00 sing Systems E 2/1/2013 2/1/2013 17,040.00 17,040.00 1,704.00 sing Systems E 2/1/2013 17,040.00 17,040.00 1,704.00 sing Systems C 2/1/2013 2/1/2013 17,040.00 1,704.00 frame Garage I 2/26/2013 2/26/2013 2,262.00 3,016.00 2,262.00	513 Cate	erpillar Diesel Genera	2/1/2013	2/1/2013	28,434.00			28,434.00	4,028.00	2,843.00		6,871.00
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	515 Ros.	s Headframe Garage I	2/26/2013	2/26/2013	22,621.00			22,621.00	3,016.00	2,262.00		5,278.00
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O- Equipment & Fixtures 5- Equipment & Fixtures 7-01022 7-01022 5.23 Modification to Ross Wo 641602013 11,070 85 11,070 85 11,070 85 5.23 Modification to Ross Wo 81,2013 81,2013 11,070 85 11,070 85 5.25 H Convention Convente Para 81,2013 81,2013 5,640 00 6,640 00 5.85 H Convention Convente Para 99,2013 99,2013 99,2013 99,2013 99,2013 5.56 H Convention Convente Para 99,2013 310,2014 31,002014 3,00400 5,000 5.56 H Convention Convente Para 310,0014 31,002014 3,002014 3,002014 3,002014 5.50 Big Biue 300 Pro Kinbora 57,2014 52,2014 11,20014 3,00000 3,00000 5.51 Biue 300 Pro Kinbora 57,2014 52,2014 11,2014 3,00000 10,445.00 5.51 Ulare Over Sid Transfor 57,2014 57,2014 11,2014 3,00000 3,00000 5.51 Ulare Over Sid Transfor 77,2014 77,2014 11,2010 3,00000 3,00000 5.51 Ulare Po	S	's ID Description	Acquire		Beginning	Additions	Retired	Ending		YTD 6/30/2015	Retired	Ending
SSS STAPP Discis by Hydranics on Ross Wo 41 (62013 41 (62013 7,000.22 7,000.22 SSS STAPP Discis by Hydranics on Ross Wo 41 (62013 617,20013 617,20013 617,20013 7,000.22 SSS STAP Discis by Hydranics Procedure Parall 81,100,120 31,000,120 31,000,120 7,040.00 6,640.00 SSS Yates Loading Dock 99,2013 30,2014 31,000,14 32,228.18 3,000.00 SSS Hance Loading Dock 97,0014 47,20014 47,20014 35,000.50 3,000.00 <td>- 0-</td> <td>Equipment & Fixtures</td> <td></td>	- 0-	Equipment & Fixtures										
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536 IT Generator Concrete Po 81/2013 81/2013 81/2013 6,640,00 6,640,00 538 Yanst Loading Dock 99/2013 99/2013 7,040,00 7,040,00 540 IT Generator Possible Dock 10,71/2013 10,31/2013 1,032,01 3,040,59 7,040,00 541 Boller JH Flether & C. 475/2014 37,02014 3,092,59 3,992,59 3,992,59 547 Boller JH Flether & C. 475/2014 475/2014 1,044,500 5,909,59 3,909,59 551 Big Blas 300 Poc Kubosa 52/2014 5,20014 11,242,00 5,900,00 10,445,00 10,445,00 551 Ulissonic Flaw Detector 59/2014 5,82014 11,742,78 5,000,00 10,445,00 </td <td></td> <td>528 25HP Diesel Hydraulic P.</td> <td>6/15/2013</td> <td>6/15/2013</td> <td>11,070.85</td> <td></td> <td></td> <td>11,070.85</td> <td>1,199.00</td> <td>1,107.00</td> <td></td> <td>2,306.00</td>		528 25HP Diesel Hydraulic P.	6/15/2013	6/15/2013	11,070.85			11,070.85	1,199.00	1,107.00		2,306.00
SSS Wates Loading Dock 99/2013 99/2013 7,040.00 SSS Vates Loading Dock 99/2013 10/2014 1/12/2014 7,040.00 7,040.00 SSO UT Generation install 10/31/2013 10/31/2013 10/31/2013 10/31/2013 10/31/3013 10/31		536 IT Generator Concrete Pa	8/1/2013	8/1/2013	6,640.00			6,640.00	304.00	332.00		636.00
49 IT Generator Install 1031/2013 1031/2013 1031/2013 28,056,44 28,056,44 542 Chen Grout Machine Pan 11/18/2014 11/18/2014 11/22.18 5,909.59 5,909.59 542 Chen Grout Machine Pan 31/10/2014 31/10/2014 31/10/2014 34,664.29 5,909.59 547 Beller JH, Fletcher & Co. 425/2014 5/20/214 5/20/2014 5/20/2014 5/20/2014 5/20/2014 5/20/2014 5/20/2014 5/20/2014 5/20/2014 5/20/2014 5/20/2014 5/20/2014 5/20/2014 5/20/2014 5/20/2014 5/20/2014 5/20/2014 5/20/2014 11/20		538 Yates Loading Dock	9/9/2013	9/9/2013	7,040.00			7,040.00	235.00	282.00		517.00
542 Hitachi CPWU9410 Proj 11/18/2014 11/18/2014 11/18/2014 11/18/2014 11/18/2014 11/18/2014 11/18/2014 11/18/2014 11/18/2014 13/10/2014 5/10/2014 <th< td=""><td></td><td>540 IT Generator Install</td><td>10/31/2013</td><td></td><td>28,056.44</td><td></td><td></td><td>28,056.44</td><td>1,870.00</td><td>2,806.00</td><td></td><td>4,676.00</td></th<>		540 IT Generator Install	10/31/2013		28,056.44			28,056.44	1,870.00	2,806.00		4,676.00
42 Chem Grout Machine Pu 310/2014 310/2014 3590-59 599-59 547 Bollet Land Machine Pu 310/2014 472/2014 590-59 590-59 547 Bollet Land Machine Pu 510/2014 472/2014 590-59 590-59 548 Bulg Blue 300 Por Kubora 52/2014 52/2014 10,445.00 10,445.00 548 Dil Fall Toolmaser Trailer 58/2014 59/2014 11,2014 11,720.00 553 Ulursouic Flaw Detector 69/2014 69/2014 11,720.14 11,742.78 579 Line Power Skid Transfor 71/2014 71/2014 11,720.00 11,742.78 560 Envis Campus Dehtunidi 72/2014 71/2014 71/2014 11,742.78 5,600.00 560 Envis Campus Dehtunidi 72/2014 71/2014 71/2014 11,742.78 5,600.00 560 Envis Campus Dehtunidi 72/2014 71/2014 71/2014 71/2014 11,742.78 560 Envis Campus Dehtunidi 72/2014 71/2014 71/2014 71/2014 11,742.78 11,742.78 560 Envis Campus Dehtunidi 72/2014 71		554 Hitachi CPWU9410 Proje	1/18/2014	1/18/2014	13,228.18			13,228.18	551.00	1,323.00		1,874.00
479 biller biller & C. 475 2014 475 2014 546 42.95 546 64.29 546 64.29 550 Biller Biller Biller & C. 475 2014 475 2014 10,445.00 540 Biller Bille		542 Chem Grout Machine Pur	3/10/2014	3/10/2014	5,909.59			5,909.59	197.00	591.00		788.00
SSO Big Blue 300 Pro Kabota \$122014 \$122014 \$10,445.00 10,445.00 SS1 Big Blue 300 Pro Kabota \$122014 \$122014 \$10,445.00 \$10,445.00 SS3 Ultravolucity \$122014 \$122014 \$11,200.00 \$11,200.00 \$188 Zultravolucity \$11,2014 \$11,200.00 \$10,445.00 \$10,000.00 \$188 Line Power Skid Transfor \$11,2014 \$11,2014 \$11,200.00 \$000.00 \$000.00 \$100 Line Power Skid Transfor \$11,2014 \$11,2014 \$11,2014 \$11,2014 \$11,201.00 \$11,201.00 \$11,200.00 \$0		547 Bolter J.H. Fletcher & Co	4/25/2014	4/25/2014	546,642.95			546,642.95	3,644.00	21,866.00		25,510.00
S51 Big Blue 300 Pro Kubota 5722014 5/22014 10,445.00 10,445.00 548 2014 Toolmaster Trailer 5/8/2014 5/8/2014 11,742.78 10,000 553 Ultrasonic Flaw Deceor 6/9/2014 6/9/2014 11,742.78 5,000.00 11,242.00 580 Line Power Skid Transfor 7/1/2014 7/1/2014 7/1/2014 7/1/2014 11,742.78 5,000.00 8,000.00 566 Davie Skid Transfor 7/1/2014 7/1/2014 7/1/2014 8/8/2014 8/8/2014 8/8/2014 8/8/2014 8/8/2014 8/8/2014 8/8/2014 8/8/2014 8/8/2014 8/8/2014 1/1/2014		550 Big Blue 300 Pro Kubota	5/2/2014	5/2/2014	10,445.00			10,445.00	174.00	1,044.00		1,218.00
548 2014 Toolmaster Trailer 5/8/2014 5/8/2014 5/8/2014 11,720.00 11,200.00 553 Ultrasonic Flaw Detector 6/9/2014 6/9/2014 11,721.4 11,742.78 11,742.78 579 Line Power Stád Transfor 7/1/2014 7/1/2014 11,722.78 5,000.00 5,000.00 560 Davis Campus Debumidi 7/1/2014 7/2/2014 7/2/2014 7,020.04 11,742.78 566 Davis Campus Debumidi 7/2/2014 8/8/2014 8/8/2014 8/8/2014 13,554.96 5,000.00 566 Davis Camon EoS C100 Cimen 8/8/2014 8/8/2014 8/8/2014 110,641.63 110,641.63 572 HVAC Unit - Adm. Builk 10/10/2014 10/10/2014 10/10/2014 11/3/3/3/3 110,641.63 110,641.63 573 HVAC Unit - Adm. Builk 10/10/2014 10/10/2014 11/3/2014 11/3/3/3 11/3/3/3 11/3/3/3 573 Them Wind Helical-Be 10/2/2014 10/2/2014 11/3/2014 11/3/3/3 11/3/3/3 11/3/3/3 575 Them Windt Helical-Be 11/2/2015 1/1/2015 1/1/2015 1/1/2015 <t< td=""><td></td><td>551 Big Blue 300 Pro Kubota</td><td>5/2/2014</td><td>5/2/2014</td><td>10,445.00</td><td></td><td></td><td>10,445.00</td><td>174.00</td><td>1,044.00</td><td></td><td>1,218.00</td></t<>		551 Big Blue 300 Pro Kubota	5/2/2014	5/2/2014	10,445.00			10,445.00	174.00	1,044.00		1,218.00
SSS Ultrasonic Flaw Detector 69/2014 69/2014 61/12014 71/12014 71/12014 71/12014 71/12014 71/12014 71/12014 71/12014 71/12014 5,000,000 5,000,000 560 Davis Campus Chumidi 71/22014 71/22014 71/22014 708,965,03 508,965,03 565 Fisher 2" Valves (2) 8/82014 8/82014 8/82014 8/82014 13,554,96 5,000,00 566 Fisher 2" Valves (2) 8/82014 8/82014 13,554,96 5,08,900 5,08,900 566 Fisher 2" Valves (2) 8/82014 8/82014 11,554,96 5,499,00 5,499,00 566 Will A Tank 8/27/2014 10/10/2014 10/10/2014 10/10/2014 10/10/2014 11/13/2014 11/13/287<		548 2014 Toolmaster Trailer	5/8/2014	5/8/2014	11,200.00			11,200.00	187.00	1,120.00		1,307.00
579 Line Power Skid Transfor 71/12014 71/12014 71/12014 5,000,000 5,000,000 580 Line Power Skid Transfor 71/12014 71/12014 71/12014 8,000,000 8,000,000 566 Davis Campus Dehumidi 71/22014 71/22014 71/22014 71/22014 71/22014 71/22014 71/22014 71/22014 71/2349 8,000,00 8,000,00 566 Eisher 2" Valves (2) 8/8/2014 8/8/2014 8/8/2014 8/8/2014 11,554,90 13,554,96 13		553 Ultrasonic Flaw Detector	6/9/2014	6/9/2014	11,742.78			11,742.78	00.86	1,174.00		1,272.00
560 Davis Campus Dehumidi 7/12014 7/120		579 Line Power Skid Transfor	7/1/2014	7/1/2014		5,000.00		5,000.00		125.00		125.00
S66 Davis Campus Dehumidi 7/22/2014 7/22/2014 7/22/2014 8/8/2014 8		580 Line Power Skid Transfor	7/1/2014	7/1/2014		8,000.00		8,000.00		200.00		200.00
S6S Fisher 2" Valves (2) 88/2014 88/2014 88/2014 13,554,96 13,554,96 568 Canon EOS C100 Cincm 8/8/2014 8/8/2014 8/8/2014 5,499 00 5,499 00 569 WTP Mix Tank 8/27/2014 8/27/2014 110,641,63 110,641,63 110,641,63 572 HVAC Unit - Adm. Built 10/10/2014 10/10/2014 10/10/2014 17,358.78 17,358.78 571 Concrete Bucket Dumas 10/22/2014 10/22/2014 10/22/2014 18,195.00 18,195.00 577 Pressure Tank 660Galon 11/5/2014 11/5/2014 11/5/2014 18,195.00 18,195.00 575 Thern Winch (Helical-Be 12/22/2014 12/22/2014 20/22/2014 20/22/2014 20/22/2014 575 Thern Winch (Helical-Be 12/22/2014 12/22/2014 20/22/2014 20/22/2014 20/22/2014 575 Thern Winch (Helical-Be 11/2015 11/12015 11/2015 11/2015 20/2010 5.000.00 5.000.00 581 Mining Controls Portable 11/2015 11/2015 11/2020 11/2020 11/2020 11/2020 11/202		566 Davis Campus Dehumidi	7/22/2014	7/22/2014		508,965.03		508,965.03		46,655.00		46,655.00
568 Canon EOS C100 Cinem 882014 882014 882014 882014 5.499,00 5,499,00 569 WTP Mix Tank 82772014 82772014 110,641,63 110,641,63 110,641,63 572 HVAC Unit - Adm. Buils 10/10/2014 10/10/2014 10/10/2014 10/10/2014 11/358.78 11/358.78 571 Concrete Bucket Dumas 10/20/2014 10/20/2014 10/20/2014 10/20/2014 18,509,51 18,509,51 573 Cement Hopper E-Z Fabr 10/20/2014 11/2		565 Fisher 2" Valves (2)	8/8/2014	8/8/2014		13,554.96		13,554.96		1,242.00		1,242.00
569 WTP Mix Tank 8/27/2014 8/27/2014 10/2014 10/10/2014 10/10/2014 10/2014 10/10/2014 1		568 Canon EOS C100 Cinem	8/8/2014			5,499.00		5,499.00		1,008.00		1,008.00
572 HVAC Unit - Adm. Build. 10/10/2014 10/10/2014 10/10/2014 11/358.78 17,358.78 571 Concrete Bucket Dumas. 10/22/2014 10/22/2014 10/22/2014 18,509.51 18,509.51 573 Cement Hopper E-Z Fabr. 10/22/2014 10/22/2014 10/22/2014 18,195.00 6,081.27 574 Pressure Tank 660Gal.on. 11/5/2014 12/22/2014 12/22/2014 12/22/2014 12/22/2014 575 Thern Winch (Helical-Be. 12/23/2014 12/23/2014 12/23/2014 12/23/2014 12/23/2014 581 Mining Controls Portable 11/12015 11/12015 11/12015 11/12015 1/1/2015 1/1/2015 1/26/2016 7,909.00 5,000.00 581 Mining Controls Portable 11/12015 11/12015 12/24/2015 7,002.00 5,000.00 5,000.00 582 Morti T-Fon Air Hoist 25 11/26/2015 11/26/2015 17,01.00 7,002.00 5,094.00 5,094.00 5,094.00 583 Netwark Video Recorder 5/4/2010 6/30/2015 17,302.00 11,390.00 11,390.00 11,390.00 11,390.00 11,3		569 WTP Mix Tank	8/27/2014			110,641.63		110,641.63		3,688.00		3,688.00
sucket Dumas 10/22/2014 10/22/2014 18,509.51 18,509.51 spper E-Z Fabr 10/22/2014 10/22/2014 18,195.00 18,195.00 ank 66oGal.on 11/5/2014 11/5/2014 11/5/2014 18,195.00 ank 66oGal.on 11/5/2014 12/22/2014 12/22/2014 130,419.20 ch (Helical-Be 12/22/2014 12/22/2014 12/22/2014 12/29/2019 ntrols Portable 11/1/2015 11/1/2015 7,099.00 7,099.00 ntrols Portable 11/1/2015 11/1/2015 7,099.00 7,099.00 nAir Hoist 25 126/2015 1/26/2015 7,075.00 7,075.00 nAir Hoist 25 11/26/2015 1/26/2015 7,002.00 7,075.00 STUDIO 3530 1/26/2015 1/26/2015 7,002.00 7,002.00 STUDIO 3530 1/25/2010 6/30/2015 171,390.00 17,390.00 TY Data Collec 11/21/2011 6/30/2015 17,705.14 7,705.14 St Data Logger 1/9/2012 6/30/2015 7,705.14 7,705.14 </td <td></td> <td>572 HVAC Unit - Adm. Builc</td> <td>10/10/2014</td> <td></td> <td></td> <td>17,358.78</td> <td></td> <td>17,358.78</td> <td></td> <td>1,302.00</td> <td></td> <td>1,302.00</td>		572 HVAC Unit - Adm. Builc	10/10/2014			17,358.78		17,358.78		1,302.00		1,302.00
spec E-Z Fabr 10/22/2014 10/22/2014 10/22/2014 10/22/2014 10/22/2014 11/5/2014 11/5/2014 11/5/2014 11/5/2014 11/5/2014 11/5/2014 11/5/2014 11/5/2014 11/5/2014 11/5/2014 11/5/2014 30,419.20 6,081.27 6,081.27 6,081.27 6,081.27 6,081.27 6,081.27 6,081.27 6,081.27 6,081.27 7,909.00 7,909.00 7,909.00 7,909.00 7,909.00 7,909.00 7,909.00 7,909.00 7,909.00 7,909.00 7,909.00 7,909.00 7,002.00		571 Concrete Bucket Dumas				18,509,51		18,509.51		1,763.00		1,763.00
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k Platform (Sk 1272/2014 12/22/2014 7,909.00 7,909.00 ntrols Portable 11/12015 11/12015 11/2015 11/2015 11/2015 11/2015 11/2015 11/2015 11/2015 11/2015 11/2015 11/2015 11/2015 11/2015 11/2010 11/2015 11/2015 11/2015 11/2010 11/201		577 Pressure Tank 660Gal.on	11/5/2014			6,081.27		6,081.27		405.00		405.00
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ntrols Portable 1/1/2015 1/1/2015 1/1/2015 1/1/2015 1/1/2015 5,000.00 5,000.00 n Air Hoist 25' 1/26/2015 1/26/2015 1/26/2015 2/24/2016 2/24/2016 2/24/2010 2		575 Thern Winch (Helical-Be	12/23/2014			7,909.00		7,909.00		395.00		395.00
is Serissor Lift 2/24/2015 1/26/2015 7,002.00 7,675.00 7,070.00 20,470.00 20,200.00 20		581 Mining Controls Portable	1/1/2015			5,000.00		5,000.00		62.00		62.00
ie Scrissor Lift 2/24/2015 2/24/2015 7,002.00 20,470.00 7,002.00 7,002.00 7,002.00 7,002.00 7,002.00 7,002.00 7,002.00 7,002.00 7,002.00 7,002.00 7,002.00 7,002.00 7,002.00 7,002.00 7,002.00 7,002.01 7		576 Profi 1-Ton Air Hoist 25'	1/26/2015			7,675.00		7,675.00		320.00		320.00
STUDIO 3530 1/25/2010 6/30/2015 7,002.00 7,002.00 ideo Recorder 5/4/2010 6/30/2015 5,984.00 5,984.00 Robotic Arm S 10/20/2010 6/30/2015 171,390.00 171,390.00 YT Data Collec 11/21/2011 6/30/2015 9,850.00 9,850.00 25D Hydraulic 1/5/2012 6/30/2015 7,705.14 7,705.14 0 Data Logger 1/9/2012 6/30/2015 7,705.14 7,705.14 0 Data Logger 1/9/2012 6/30/2015 22,546.19		578 JLG Electric Scrissor Lift	2/24/2015			20,470.00		20,470.00		682.00		682.00
ideo Recorder 5/4/2010 6/30/2015 5,984.00 5,984.00 171,390.00 172,300.00 172,300.00 172,310.00<		582 Toshiba e-STUDIO 3530	1/25/2010		7,002.00			7,002.00	5,584.98			5,584.98
Robotic Arm S 10/20/2010 6/30/2015 171,390.00 171,390.00 171,390.00 PT Data Collec 11/21/2011 6/30/2015 9,850.00 9,850.00 9,850.00 25D Hydraulic 1/5/2012 6/30/2015 12,816.00 12,816.00 12,816.00 0 Data Logger 1/9/2012 6/30/2015 7,705.14 7,705.14 7,705.14 c Loader 4/13/2012 6/30/2015 22,546.19 22,546.19		584 Netowrk Video Recorder	5/4/2010		5,984.00			5,984.00	3,546.11			3,546.11
25D Hydraulic 1/5/2012 6/30/2015 9,850.00 9,850.00 25D Hydraulic 1/5/2012 6/30/2015 12,816.00 12,816.00 0 Data Logger 1/9/2012 6/30/2015 7,705.14 7,705.14 0 Data Logger 1/9/2012 6/30/2015 7,705.14 7,705.14 c Loader 4/13/2012 6/30/2015 22,546.19 22,546.19		585 Shot Tech Robotic Arm 5		63	171,390.00			171,390.00	114,404.53			114,404.53
25D Hydraulic 1/5/2012 6/30/2015 12,816.00 12,816.00 Data Logger 1/9/2012 6/30/2015 7,705.14 Data Logger 1/9/2012 6/30/2015 7,705.14 Coader 4/13/2012 6/30/2015 22,546.19		589 Topcon GPT Data Collec	11/21/2011		9,850.00			9,850.00	3,775.79			3,775.79
0 Data Logger 1/9/2012 6/30/2015 7,705.14 7,705.14 7,705.14 0 Data Logger 1/9/2012 6/30/2015 7,705.14 7,705.14 7,705.14 5, Loader 4/13/2012 6/30/2015 22,546.19		590 Wolverine 25D Hydraulic	1/5/2012	6/30/2015	12,816.00			12,816.00				0.00
0 Data Logger 1/9/2012 6/30/2015 7,705.14 7,705.14 7,705.14 (Loader 4/13/2012 6/30/2015 22,546.19		591 Micro 1000 Data Logger	1/9/2012	7	7,705.14			7,705.14	4,402.96			4,402.96
¿Loader 4/13/2012 6/30/2015 22,546.19 22,546.19		592 Micro 1000 Data Logger	1/9/2012		7,705.14			7,705.14	4,402.96			4,402.96
		593 Mini Track Loader	4/13/2012		22,546.19			22,546.19	7,515.34			7,515.34
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Vigy Authorists Reginating Additions Retrict Inding Reginating VTD 6-00-2015 Retrict vigy Authorists 11,202-201 6.02-0012 6.02-0012 1.4(023-44 6.444-83 Retrict vigy 11,202-001 6.02-0012 1.4(023-44 1.4(023-44 6.044-83 Retrict vigy 11,202-001 6.02-0012 1.52.23 1.14,223-3 1.000-44 9.084.03 vigy 11,202-001 6.02-0012 1.15,223-3 1.14,023-4 1.25.00.04 9.084.03 vigy 11,202-001 6.02-0012 1.15,000.02 1.15,000.02 1.15,000.02 1.15,000.04 vigy 11,202-001 6.12,000 6.12,000 1.12,773.02 1.877.02 1.877.02 1.877.02 delig 2.12,000 6.12,000 6.12,000 6.12,000 6.12,000 1.97.02 1.877.02 1.877.02 1.877.02 1.877.02 1.877.02 1.877.02 1.877.02 1.877.02 1.877.02 1.877.02 1.877.02 1.877.02 1.877.02 1.877.02 1.877.02 1.877.02 1.877.02 <th>Year to Date 7/1/2014 through 6/30/2015</th> <th>//2015</th> <th>3</th> <th>Cost of Fixed Assets</th> <th>ssets</th> <th></th> <th>A</th> <th>Accumulated Depreciation</th> <th>epreciation</th> <th></th> <th></th>	Year to Date 7/1/2014 through 6/30/2015	//2015	3	Cost of Fixed Assets	ssets		A	Accumulated Depreciation	epreciation		
Symmetry CARDON CARDO	S. D. Science & Technology Aud.			Reginning	Additions	Roting	Fnding		VTD 6/30/2015	Retired	Ending
State of School S (S00001) 6.02001 (S00001) 6.020001 (S000001)	Sys ID Description	Acquire		Degiming	Additions	Wented	Simming	-1	0107/06/0	Wellen	Simple
Symbols of Calcadia (14,0244) 14,023.44 26,026.14 9,844.35 6,844.35 6,844.35 6,844.35 8,844.35 <t< td=""><td>140 - Equipment & Fixtures</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	140 - Equipment & Fixtures										
Table Control Contro	594 Vertical Diesel Symo Pov	6/26/2012	6/30/2015	14,023.44			14,023.44	6,844.83			6,844.83
siny 110202012 6392031 1154233 360644 360644 siny 110202012 6392031 1154233 1154233 360644 360644 severing 11020201 6392015 1154233 615000 7241137 7241137 7241137 7241137 severing 11032010 6320201 137722 137722 137723 448600 7300 severing 217200 217200 6720783 6720783 2467326 448600 7300 Bldg 472700 4721130 0.00 7421130 6.58923 49900 0.00 742130 sept 472700 671200 671200 672078 7421130 0.00 742130 6.58923 49900 0.00 742130 6.58923 49900 0.00 742130 6.58923 49900 0.00 742130 6.58923 49900 0.00 742130 6.58923 48000 0.00 742130 6.58923 49900 0.00 0.00 742130	595 IT Generac Generator	6/28/2013	6/30/2015	26,208.14			26,208.14	9,984.03			9,984.03
117012012 6392013 1154233 1154233 3406444 340644 340644 340644 340644 340644 340644 34064	596 Kubota RTV Utility	11/20/2012	6/30/2015	11,542.33			11,542.33	3,060.44			3,060.44
Formulage (1022010) 6502015 1.5990.26 7.351.38 7.351.38 7.351.38 7.351.38 7.351.38 7.351.38 7.351.38 7.351.38 7.351.38 7.351.38 7.351.38 7.351.39	597 Kubota RTV Utility	11/20/2012	6/30/2015	11,542.33			11,542.33	3,060.44			3,060.44
Horizone Citatione Citat	598 HD Video Conferencing	10/3/2010	6/30/2015	13,990.26			13,990.26	7,383.78			7,383.78
12012006 21/2006 21/2008 23/			L	9,102,777.42	783,278.38	(65,179.02)	9,820,876.78	2,411,043.95	627,928.00	(29,107.90)	3,009,864.05
cumin Bidg 21/2006 1/2006 1/2006 1/2006 1/2006 1/2009 2/12009	- Furniture & Fixtures										
Admin Blog 21/2008 21/2008 21/2008 24/67/26 4486 00 25 Admin Blog 21/2009 21	249 Blinds	6/1/2006		1,877.92			1,877.92	1,877.25			1,877.25
Admin Bidg 47/2009 5,033.75 2,023.03 4,990.00 000 3 Admin Bidg 425/2006 41/201.50 0.00 0.00 74,211.50 29,280.33 4,990.00 0.00 3 Admin Bidg 425/2006 61/2006 19,584.00 19,584.00 15,884.00 15,884.00 10,000 11 model-Admin 61/2006 61/2006 10,588.27 10,988.27 11,000 10,000 11 diding Renovalic 61/2006 61/2006 10,888.27 11,222.00 1,958.00 1,000 1,000 1,100	250 6X8 Workstations - Adm	12/31/2008		67,297.83			67,297.83	24,673.26	4,486.00		29,159.26
dumi Bidg 4252006 4252006 6.589 30 6.589 30 6.589 30 0.00 7421150 0.00 7421150 0.00 7421150 0.00 7421150 0.00 7421150 0.00 7421150 0.00 7421150 0.00 7421150 0.00 7421150 0.00 742100 0.00 742100 0.00 7421150 0.00 0.00 0.00 7421150 0.00 0.00 74200 0.00 0.00 0.00 74200 0.0	251 Blinds - Admin Bldg	2/1/2009		5,035.75			5,035.75	2,729.82	504.00		3,233.82
Authin Bidg 47252006 6,589.30 6,589.30 6,589.20 17 model - Admin 61/2006 61/2006 19,584.00 19,584.00 15,828.40 15,938.00 17 model - Admin 61/2006 61/2006 19,584.00 19,584.00 10,900.00 17 duling Renovatif 61/2006 61/2006 10,588.27 8,810.31 1,090.00 17 de East Sub Statt 727/2007 727/2007 31,222.00 31,222.00 3,744.44 624.00 4 d Salizons 630,2008 630,2008 19,764.49 22,718.49 3,953.00 20 d Salizons 630,2008 630,2008 5,795.00 19,764.49 62,400 22,400 d System (Existin 711/2008 630,2008 5,795.00 5,795.00 1,200 1,200 1,200 cv Con Hondo 711/2008 63,000.00 8,250.00 8,250.00 1,200 1,200 1,200 cv Con Hondo 711/2008 711/2008 71/2008 71/2008 1,200				74,211.50	00:00	00.00	74,211.50	29,280.33	4,990.00	0.00	34,270.33
Inniu Bidg 47252006 47252006 47252006 47252006 4725200 4725200 4725200 4725200 4725200 4725200 4725200 4725200 4725200 472520 47250 472520 472520 472520 472520 472520 472520 472520 47250 47250 472520 472520 472520 472520 472520 472520 472520 47250 47250 47250 47250 47250 47250 47250 47250 47250 47250 47250 47250 47250 47	- Improvements										
oodel - Admin of 1/2006 6/1/2006 6/1/2006 6/1/2006 6/1/2006 1/388.27 8.810.31 1/988.00 1/998.00 dring Removatic 2/1/2006 6/1/2006 10,204.00 10,888.27 8.810.31 1,090.00 9 Fast Sub-Stat 7/27/2007 7/27/2007 3/1,222.00 3/1,222.00 3/1,444 624.00 9 Station 8/31/2008 8/31/2008 8/31/2008 8/31/2008 3/34/44 624.00 9 Building 6/30/2008 5/31/2008 8/31/2008 8/31/2008 8/31/2008 3/34/34 624.00 9 Building 6/30/2008 6/30/2008 1/37/2007 1/37/200	189 Carpet - Admin Bldg	4/25/2006	4/25/2006	6,589.30			6,589.30	6.589.29			6,589.29
billing Removatik 61/12006 61/12006 61/12006 61/12006 61/12006 61/12007 21/142007 16,714.32 16,714.32 2,611.43 334,00 9 Fibat Sub Stat 727/2007 71/2008 13,722.00 3,744.44 624.00 4 J Sation 5,31/2008 5,31/2008 5,102.00 197,64.59 197,64.50 23,718.44 624.00 4 Building 5,31/2008 5,31/2008 5,30/2008 197,64.59 197,64.59 172.00 7 Building 7,10008 7/1/2008 17/1/2008 7/1/2008 17/1/2008 17/1/2008 3,592.72 65.00 6,000 7 1,000 7/1/2008 7/1/2008 7/1/2008 7/1/2008 7/1/2008 3,592.00 1,593.00 222.00 1,593.00 222.00 1,593.00 222.00 1,593.00 222.00 1,593.00 222.00 1,593.00 222.00 1,593.00 222.00 1,593.00 222.00 222.00 222.00 1,593.00 222.00 222.00 <t< td=""><td>283 Office Remodel - Admin</td><td>9/1/2006</td><td>6/1/2006</td><td>19,584.00</td><td></td><td></td><td>19,584.00</td><td>15,828.40</td><td>1,958.00</td><td></td><td>17,786.40</td></t<>	283 Office Remodel - Admin	9/1/2006	6/1/2006	19,584.00			19,584.00	15,828.40	1,958.00		17,786.40
sing Renovatí 2/14/2007 14/12/2007 16/14/32 2,611.43 334.00 2 Sistación 5/12/2007 31,222.00 37,444 624.00 4 Station 5/31/2008 5/31/2008 8,617.06 1,023.44 624.00 Building 5/31/2008 5/31/2008 5/31/2008 1,024.49 197.04 Building 6/30/2008 6/30/2008 1,076.43 197.64.59 197.64.59 172.00 Building 6/30/2008 6/30/2008 1,076.43 197.64.59 1,000 1 Building 6/30/2008 1,170/2008 1,170/200 1,170/200 1,100 1,100 Spam (Existin 7/11/2008 7/11/2008 8,250/00 6,000/00 1,200/00 1,200/00 1,200/00 1,200/00 1,200/00 1,200/00 1,200/00 1,100/00 1,100/00 1,100/00 1,100/00 1,100/00 1,100/00 1,100/00 1,100/00 1,100/00 1,100/00 1,100/00 1,100/00 1,100/00 1,100/00 1,100/00	284 Office Remodel/Painting	6/1/2006	9/1/2006	10,898.27			10,898.27	8,810.31	1,090.00		9,900.31
East Sub Stat 71272007 71272007 71272007 7127200 31422200 8617.06 1,032.34 172.00 Building 6502008 6502008 197,674.59 8617.06 1,032.34 172.00 1 Provenents - Location State (Signos) 157,0208 6502008 6502008 6502008 1,025.34 172.00 1 provenents - Location State (Signos) 1712008 17120	285 Yates Building Renovatic	2/14/2007	2/14/2007	16,714.32			16,714.32	2,611.43	334.00		2,945.43
System (Existin Tricons) \$5/31/2008 \$6,17,008 \$6,17,008 \$6,17,008 \$6,17,009 \$1,032,34 \$172,00 Building \$6,30,2008 \$6,30,2008 \$6,30,2008 \$6,792,72 \$6,58.5 \$116,00 provements - Admin Are \$6,30,2008 \$7,792,72 \$6,5792,72 \$6,58.5 \$116,00 provements - Admin Are \$7,112,008 \$1,12008 \$2,792,72 \$6,58.5 \$116,00 c. Crot Hondo & T/11,2008 \$1,12008 \$2,792,00 \$2,792,00 \$3,000,00 \$1,000 c. Crot Hondo & T/11,2008 \$1,12008 \$2,500,00 \$2,500,00 \$2,000	263 Power Line East Sub Stat	7/27/2007	7/27/2007	31,222.00			31,222.00	3,744.44	624.00		4,368.44
Building 6/30/2008 6/30/2008 197,674.59 197,674.59 23718.49 3,953.00 27 provements - Admin Are Sixtin 7/1/2008 7/1/2008 5/792.72 695.85 116.00 232.00 15 1-Admin Are Admin Are Admin Are Sixtin 7/1/2008 7/1/2008 7/1/2008 8,795.00 8,795.00 1,391.80 232.00 1 1-Admin Are Admin Are Admin Are Sixtin 7/1/2008 7/1/2008 8,250.00 8,250.00 1,800.00 3,000.00 222.00 1 1-Admin Are Admin Are Admin Are Sixtin 7/1/2008 7/1/2008 7/1/2008 8,250.00 3,000.00 3,000.00 222.00 3,000.00	269 Ross Guard Station	5/31/2008	5/31/2008	8,617.06			8,617.06	1,032.34	172.00		1,204.34
provements - Implication of Aging Signation Area (Aging Signation Aging S	271 Ross Hoist Building	6/30/2008	6/30/2008	197,674.59			197,674.59	23,718.49	3,953.00		27,671.49
vsteam (Existin 7/1/2008 1/1/2008 5,795.00 1,391.80 232.00 t - Admin Are 7/1/2008 7/1/2008 7/1/2008 8,256.00 18,000.00 3,000.00 22 t - Admin Are 7/1/2008 7/1/2008 25,000.00 8,256.00 990.00 165.00 165.00 t Ross 69KV P 7/1/2008 7/1/2008 25,000.00 3,000.00 500.00 165.0	286 Kitchen Improvements - ,	6/30/2008	6/30/2008	5,792.72			5,792.72	695.85	116.00		811.85
t - Admin Are. 71/12008 71/12008 60,000.00 18,000.00 3,000.00 20 Foxs 69KV P. 71/12008 71/12008 25,000.00 3,000.00 165.00 165.00 Ross 69KV P. 71/12008 71/12008 11,200.00 3,000.00 500.00 165.00 Gravel Yard. 71/12008 71/12008 12,277.00 3,341.93 557.00 557.00 Line 71/12008 71/12008 17,695.65 17,695.65 3,341.93 557.00 557.00 Line 11/1242008 11/242008 11/24200 17,695.65 3,952.90 708.00 3,41.93 557.00 Admin Bl. 11/12400 11/242008 11/2400 10,340.00 10,340.00 3,674.78 689.00 24.40.00 3,674.78 689.00 24.40.00 24.40.00 25.20.00 3,674.78 689.00 25.20.00 25.20.00 25.20.00 25.20.00 25.20.00 25.20.00 25.20.00 25.20.00 25.20.00 25.20.00 25.20.00 25.20.00 25.20.00	259 Gas Line System (Existin	7/1/2008	7/1/2008	5,795.00			5,795.00	1,391.80	232.00		1,623.80
Core Hondo 6 71/12008 71/12009 71/12009 71/12008 71/12009	261 Parking Lot - Admin Are:	7/1/2008	7/1/2008	60,000.00			00.000.09	18,000.00	3,000.00		21,000.00
FRoss 69KV P 71/12008 71/12009	264 Power Line Oro Hondo 6'	7/1/2008	7/1/2008	8,250.00			8,250.00	00'066	165.00		1,155.00
Ciravel Yard 711/2008 711/2008 711/2008 711/2008 7125.00 8 CGravel Yard 711/2008 711/2009 708.00	265 Power Line Ross 69KV P	7/1/2008	7/1/2008	25,000.00			25,000.00	3,000.00	500.00		3,500.00
Gravel Yard) 71/12008 71/12008 71/12008 71/12008 71/12008 71/12008 71/12008 71/12008 71/12008 71/12008 71/12008 71/12008 71/12008 71/12008 71/12008 71/12009	267 Rail System Underground	7/1/2008	7/1/2008	61,267.89			61,267.89	7,350.36	1,225.00		8,575.36
Line 7/1/2008 7/1/2008 7/1/2008 7/1/2008 7/1/2008 7/1/2008 7/1/2009 <th< td=""><td>275 Ross Yard (Gravel Yard)</td><td>7/1/2008</td><td>7/1/2008</td><td>22,277.00</td><td></td><td></td><td>22,277.00</td><td>3,341.93</td><td>557.00</td><td></td><td>3,898.93</td></th<>	275 Ross Yard (Gravel Yard)	7/1/2008	7/1/2008	22,277.00			22,277.00	3,341.93	557.00		3,898.93
Line 11/24/2008 11/24/2008 17,695.65 3,952.90 708.00 4 states 11/24/2008 11/24/2008 17,695.65 3,826.21 29,606.31 5,383.00 34 states 2/18/2009 2/18	282 Yates Yard (Gravel Yard)	7/1/2008	7/1/2008	16,282.20			16,282.20	2,442.06	407.00		2,849.06
y1 - Admin Bl. 1/1/2009 1/1/2009 1/1/2009 1/1/2009 53,826.21 53,826.21 53,83.00 3674.78 689.00 4 ations - Ross \$ 2/18/2009 2/18/2009 10,340.00 3,674.78 689.00 2 ations - Yates 2/18/2009 2/18/2009 57,716.63 20,522.59 3,848.00 2 orage Building 2/25/2009 16,200.00 16,200.00 1,728.00 324.00 2 frame Crusher 3/1/2009 3/1/2009 3/1/2009 33,519.74 3,519.74 3,573.46 670.00 ty/Dry Buildin 3/1/2009 3/1/2009 52,177.41 5,567.85 1,044.00 (0)	277 Yates Gas Line	11/24/2008	11/24/2008	17,695.65			17,695.65	3,952.90	708.00		4,660.90
ations - Ross \$ 2/18/2009 2/18/2009 2/18/2009 2/18/2009 2/18/2009 2/18/2009 2/18/2009 2/18/2009 2/18/2009 2/18/2009 2/18/2009 2/18/2009 2/25/2009	288 Carpet/Vinyl - Admin Blo	1/1/2009	1/1/2009	53,826.21			53,826.21	29,606.31	5,383.00		34,989.31
ations - Yates 2/18/2009 2/18/2009 57,716.63 20,522.59 3,848.00 252.00 orage Building 2/25/2009 2/25/2009 16,200.00 16,200.00 1,728.00 324.00 26,409.12 26,409.12 2,816.06 528.00 33,519.74 3,573.46 670.00 cy/Dry Buildin 3/1/2009	256 Communications - Ross 5	2/18/2009	2/18/2009	10,340.00			10,340.00	3,674.78	00.689		4,363.78
orage Building 2/25/2009 2/25/2009 16,200.00 1,728.00 324.00 frame Crusher 3/1/2009	257 Communications - Yates	2/18/2009	2/18/2009	57,716.63			57,716.63	20,522.59	3,848.00		24,370.59
frame Crusher 3/1/2009 3/1/2009 26,409.12 2,816.06 528.00 3 Ifframe/Crusher 3/1/2009 3/1/2009 33,519.74 3,573.46 670.00 4 Sy/Dry Buildin 3/1/2009 3/1/2009 52,177.41 5,567.85 1,044.00 (266 Propane Storage Building	2/25/2009	2/25/2009	16,200.00			16,200.00	1,728.00	324.00		2,052.00
Iframe/Crusher 3/1/2009 3/1/2009 33,519,74 3,573.46 670.00 4 52,177.41 5,567.85 1,044.00 (1.044.00 1.044.00 1.044.00 (1.044.00 1.044.00 1.044.00 (1.044.00 1.044.00 (1.044.00 1.044.00 (1.044.00 1.044.00 (1.0	270 Ross Headframe Crusher	3/1/2009	3/1/2009	26,409.12			26,409.12	2,816.06	528.00		3,344.06
ty/Dry Buildin 3/1/2009 3/1/2009 52,177.41 52,177.41 5,567.85 1,044.00	278 Yates Headframe/Crusher	3/1/2009	3/1/2009	33,519.74			33,519.74	3,573.46	670.00		4,243.46
	280 Yates Safety/Dry Buildin	3/1/2009	3/1/2009	52,177.41			52,177.41	5,567.85	1,044.00		6,611.85
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000 - SD Science & Technology Authority	ority									
Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2015	Retired	Ending
160 - Improvements										
260 IT Room Electrical/Instal	3/4/2009	3/4/2009	41,618.32			41,618.32	11,098.64	2,081.00		13,179.64
279 Yates Hoist Building	4/14/2009	4/14/2009	159,110.28			159,110.28	16,705.55	3,182.00		19,887.55
272 Ross Pump System	6/12/2009	6/12/2009	963,663.60			963,663.60	195,947.00	38,547.00		234,494.00
258 Fiber Optic Network Syst	6/30/2009	6/30/2009	17,541.98			17,541.98	4,385.00	877.00		5,262.00
262 Power Distribution	6/30/2009	6/30/2009	783,887.52			783,887.52	78,390.00	15,678.00		94,068.00
268 Ross Dry Building	6/30/2009	6/30/2009	63,368.30			63,368.30	6,335.00	1,267.00		7,602.00
273 Ross Shaft	6/30/2009	6/30/2009	9,773,260.40			9,773,260.40	977,325.00	195,465.00		1,172,790.00
274 Ross Substation	6/30/2009	6/30/2009	277,760.27			277,760.27	27,775.00	5,555.00		33,330.00
276 WWTP Improvements	6/30/2009	6/30/2009	660,400.84			660,400.84	66,040.00	13,208.00		79,248.00
281 Yates Shaft	6/30/2009	6/30/2009	4,694,581.28			4,694,581.28	469,460.00	93,892.00		563,352.00
287 Admin Bldg Improvemen	6/30/2009	6/30/2009	382,643.40			382,643.40	38,265.00	7,653.00		45,918.00
407 Ross Substation Upgrade	3/1/2010	3/1/2010	79,000.94			79,000.94	6,847.00	1,580.00		8,427.00
409 Yates Shaft	4/1/2010	4/1/2010	2,185,614.49			2,185,614.49	185,776.00	43,712.00		229,488.00
402 LUX Surface Lab	5/1/2010	5/1/2010	1,563,830.79			1,563,830.79	130,321.00	31,277.00		161,598.00
403 Oro Hondo Substation U ₁	5/15/2010	5/15/2010	85,015.90			85,015.90	7,083.00	1,700.00		8,783.00
404 Pole Frame Building	6/1/2010	6/1/2010	14,183.70			14,183.70	1,160.00	284.00		1,444.00
408 Yates Fencing	6/15/2010	6/15/2010	10,469.70			10,469.70	2,136.00	523.00		2,659.00
401 Fiber Optic Network Syst	6/30/2010	6/30/2010	19,495.55			19,495.55	3,900.00	975.00		4,875.00
405 Power Distribution Upgra	6/30/2010	6/30/2010	341,565.29			341,565.29	27,324.00	6,831.00		34,155.00
406 Ross Pumping System	6/30/2010	6/30/2010	159,652.84			159,652.84	25,544.00	6,386.00		31,930.00
447 Yates Parking Lot Resurf	9/24/2010	9/24/2010	259,641.41			259,641.41	97,365.00	25,964.00		123,329.00
445 Majorana Shotcreting Im	10/15/2010	10/15/2010	268,602.24			268,602.24	33,574.00	8,953.00		42,527.00
428 Ross Dry Renovations	10/30/2010	10/30/2010	243,726.84			243,726.84	17,875.00	4,875.00		22,750.00
431 Yates E&O Dry Renovati	11/30/2010	11/30/2010	214,711.49			214,711.49	15,387.00	4,294.00		19,681.00
434 Communications Improve	6/30/2011	6/30/2011	89,807.33			89,807.33	17,961.00	5,987.00		23,948.00
435 Power Distribution Imprc	6/30/2011	6/30/2011	108,274.04			108,274.04	6,495.00	2,165.00		8,660.00
436 Fiber Optic Network Syst	6/30/2011	6/30/2011	24,228.00			24,228.00	3,633.00	1,211.00		4,844.00
437 Ross Pump System Impro	6/30/2011	6/30/2011	17,311.87			17,311.87	2,076.00	692.00		2,768.00
443 Davis Shotcreting Improv	6/30/2011	7/1/2011	857,538.24			857,538.24	85,755.00	28,585.00		114,340.00
481 Improvements to Yates R	5/1/2012	5/1/2012	42,785.45			42,785.45	1,855.00	856.00		2,711.00
510 Davis Campus Laborator	11/30/2012	11/30/2012	8,453,584.87			8,453,584.87	446,161.00	281,786.00		727,947.00
527 Ross Gas Line	1/14/2013	1/14/2013	15,873.11			15,873.11	952.00	635.00		1,587.00
521 4850 Refuge Area	2/1/2013	2/1/2013	175,941.14			175,941.14	12,462.00	8,797.00		21,259.00
		l	33 812 540 53	000	000	33 817 540 53	2 104 356 84	0000000	000	1 067 256 81

170 - Improvements in Progress

- 000	000 - SD Science & Technology Authority	ority									
Sy	Sys ID Description	Acquire	In Service	Beginning	Additions	Retired	Ending	Beginning Y	YTD 6/30/2015	Retired	Ending
- 04	170 - Improvements in Progress										
	477 Improvements in Progress	6/30/2012	6/30/2012	934,406.24			934,406.24				0.00
	529 Inprovement in Progress ·	6/30/2013	6/30/2013	1,635,423.51			1,635,423.51				0.00
	535 Ross Shaft Labor/SCC/El	6/30/2013	6/30/2013	1,096,843.28			1,096,843.28				0.00
	552 RTU HVAC Admin. Bldg	6/30/2014	6/30/2014	9,241.00		(9,241.00)	0.00				0.00
	557 Ross Shaft Rehab FY14 !	6/30/2014	6/30/2014	3,873,268.01			3,873,268.01				0.00
	558 Davis Dehumidification 5	6/30/2014	6/30/2014	529,719.52		(529,719.52)	0.00				0.00
	559 Yates Skip Bonnet Work	6/30/2014	6/30/2014	12,044.20		(12,044.20)	0.00				0.00
	560 WTP Tank Install (Tank I	6/30/2014	6/30/2014	474.20		(474.20)	0.00				0.00
	561 CASPAR Experiment De	6/30/2014	6/30/2014	30,234.06			30,234.06				0.00
	562 CASPAR Facility Develo	6/30/2014	6/30/2014	279,209.33			279,209.33				0.00
	563 Ross Rehab FY14 SCC/L	6/30/2014	6/30/2014	1,216,243.78			1,216,243.78				0.00
	564 CASPAR Facility Dev F1	6/30/2014	6/30/2014	58,490.80			58,490.80				0.00
	604 Ross Shaft Rehab FY201	6/30/2015	6/30/2015		6,331,306.42		6,331,306.42				0.00
	605 Sanford Visitor Center	6/30/2015	6/30/2015		4,460,206.48		4,460,206.48				0.00
D	606 CASPAR/BHSU UG Fac	6/30/2015	6/30/2015		2,356,853.77		2,356,853.77				0.00
ge 5	607 Yates 2nd Skip Bonnet	6/30/2015	6/30/2015		12,047.98		12,047.98				0.00
	608 CASPAR Experiment De	6/30/2015	6/30/2015		668,419.00		668,419.00				0.00
0.15	609 Jonas Renovation FY15	6/30/2015	6/30/2015		1,383,790.71		1,383,790.71				0.00
			ı	9,675,597.93	15,212,624.36	(551,478.92)	24,336,743.37	00:00	0.00	0.00	0.00
- 081	- Infrastructure										
	294 Road Gravel WWTP East	7/1/2008	7/1/2008	48,846.60			48,846.60	7,326.17	1,221.00		8,547.17
	296 Road Gravel Yates Hillsin	7/1/2008	7/1/2008	5,159.00			5,159.00	773.98	129.00		902.98
	298 Sewer Line System	7/1/2008	7/1/2008	14,850.00			14,850.00	3,564.00	594.00		4,158.00
	300 Water Line System (Histo	7/1/2008	7/1/2008	38,150.00			38,150.00	9,156.00	1,526.00		10,682.00
	301 Water Line System (Othe	7/1/2008	7/1/2008	25,675.00			25,675.00	6,162.00	1,027.00		7,189.00
	292 Concrete Cooling Basins	8/1/2008	8/1/2008	25,000.00			25,000.00	2,958.33	500.00		3,458.33
	293 Concrete Vault System	8/1/2008	8/1/2008	25,000.00			25,000.00	2,958.33	500.00		3,458.33
	290 Mill Reservoir	10/30/2008	10/30/2008	117,540.85			117,540.85	13,322.21	2,351.00		15,673.21
	297 Sewer Line - Backwash t	11/1/2008	11/1/2008	155,156.08			155,156.08	35,167.50	6,206.00		41,373.50
	291 Clarifier - WWTP	11/25/2008	11/25/2008	117,245.74			117,245.74	13,092.87	2,345.00		15,437.87
	414 Grizzly Gulch Decant Pip	1/1/2011	1/1/2011	1,060,808.89			1,060,808.89	74,256.00	21,216.00		95,472.00
	415 Ross Potable Water Line	1/1/2011	1/1/2011	24,810.00			24,810.00	3,472.00	992.00		4,464.00
0	Pur 1 001		L	1,658,242.16	00.00	00.00	1,658,242.16	172,209.39	38,607.00	0.00	210,816.39
- 06	204 I and Denoted by Home	2000/11/1	2000/11/2 2000/11/2	00 000 115 1			00 000 115 1				00.0
	304 Land - Donated by nome	4/14/2000	0007/41/4	1,511,000,00			1,011,000,00				,
	200 - California and a second										-

Sys ID Description Acquire In Service Reginning Additions Retired Enaling PEginning YTD 6:30/2015 RA 9 - Land	- 00	000 - SD Science & Technology Authority	ority									
13112007 13112007 13435.39 13,435.39 13,435.39 4,000.00 4,000.00 45,000.00 45,000.00 45,200.00	Sy	s ID Description		In Service	Beginning	Additions	Retired	Ending	0.5%	YTD 6/30/2015	Retired	Ending
305 Land - Closing Costs 11312007 11312007 11312007 11312007 11312007 11312007 11312007 11312007 11312007 11312007 11312007 11312007 11312007 11312007 11312007 11312007 11312007 11334,333 11343339 11312000 4,000.00 4,000.00 4,000.00 4,000.00 4,000.00 4,000.00 4,000.00 6,002.66 4,000.00 6,000.00 6,00	- 061	Land										
306 Land - Phase II Sire Asse. 630/2008 630/2008 4,000.00 4,000.00 307 Land - Phase II Sire Asse. 1222/2008 5,02.65 5,602.65 5,602.65 603 Ellison Option 630/2015 630/2015 45,260.00 6,000 1,579/298.04 6,00 310 Archive Materials 711/2008 711/2008 711/2008 711/2008 711/2008 70,000.00 0.00 10,579/298.04 0.00 0.00 310 Archive Materials 711/2008 711/2008 711/2008 711/2008 70,000.00 0.00		305 Land - Closing Costs	1/31/2007	1/31/2007	13,435.39			13,435.39				0.00
307 Land – Phase II Site Asse 1223/2008 1223/2008 5.602.65 \$.602.65 \$.500.65 603 Ellison Option 6/30/2015 6/30/2015 6/30/2015 45.260.00 45.260.00 45.260.00 0.00 1.579/208.04 0.00		306 Land - Phase I Enviromer	6/30/2008		4,000.00			4,000.00				0.00
603 Ellison Option 630/2015 6/30/2015 6/30/2015 6/30/2015 45,260.00 45,260.00 45,260.00 0.00 1,579/298.04 0.00 0.00 9. Other Non Dep 3/9 Archive Materials - Gold 7/11/2008 7/11/2008 7/11/2008 7/11/2008 7/11/2008 7/11/2008 7/11/2008 7/11/2008 7/11/2008 7/11/2008 7/11/2009 0.00		307 Land - Phase II Site Asse:	12/23/2008	12/23/2008	5,602.65			5,602.65				0.00
1,534,038 04 45,260,00 0.00 1,579,298.04 0.00 0.00 310 Archive Materials		603 Ellison Option	6/30/2015	6/30/2015		45,260.00		45,260.00				0.00
3.09 Archive Materials				1	1,534,038.04	45,260.00	00.00	1,579,298.04	00:00	0.00	00:00	0.00
309 Archive Materials - Gold 71/12008 71/12008 20,000.00 6.00 6.00 6.000 6.000 6.000 9.000 9.000.00 9.000.00 9.000.00 9.000.00 9.000.00 9.000.00 9.000.00 9.000.00 9.000.00 9.000.00 9.000.00 9.000.00 9.000.00 9.000.00 9.000.00 9.000 9.000.00 9.000 9.000 9.000.00 9.000 9.	- 00	Other Non Dep										
310 Archive Materials 7/1/2008 7/1/2008 7/1/2008 50,000.00 600 70,000.00 600 70,000.00 600 70,000.00 600 70,000.00 600 70,000.00 600 70,000.00 600 70,000.00 600 70,000.00 600 70,000.00 600 70,000.00 600 70,000.00 600 70,000.00 600 70,000.00 600 70,000.00 600 70,000 70,000.00 600 70,000 <td></td> <td>309 Archive Materials - Gold</td> <td>7/1/2008</td> <td>7/1/2008</td> <td>20,000.00</td> <td></td> <td></td> <td>20,000.00</td> <td></td> <td></td> <td></td> <td>0.00</td>		309 Archive Materials - Gold	7/1/2008	7/1/2008	20,000.00			20,000.00				0.00
1. Underground 3.11 Underground 3.12 Underground 3.12 Underground 4.10 Inderground 4.10 Ind		310 Archive Materials	7/1/2008		50,000.00			50,000.00				0.00
1. Underground 311 Underground 1/31/2007 1/31/2009 1/31/2009 1/31/2009<				l	70,000.00	00.00	00.00	70,000.00	00.00	0.00	00.00	0.00
311 Underground - Closing C 1/31/2007 1/31/2010 1/31/20	- 01	Underground										
312 Underground 1/31/2007 1/31/2007 10,558,650.00 10,658,650.00 10,749,336.99 0.00 10,749,336.99 0.00 0.00 10,749,336.99 0.00 <th< td=""><td></td><td>311 Underground - Closing C</td><td>1/31/2007</td><td>1/31/2007</td><td>66'989'06</td><td></td><td></td><td>66'989'06</td><td></td><td></td><td></td><td>0.00</td></th<>		311 Underground - Closing C	1/31/2007	1/31/2007	66'989'06			66'989'06				0.00
10. Tudeground Improvements 10,749,336.99 0.00 0.00 10,749,336.99 0.00 0.		312 Underground	1/31/2007	1/31/2007	10,658,650.00			10,658,650.00				0.00
9 - Underground Improvements 6/30/2010 6/30/2010 1,210,109.78 1,210,109.78 410 Improvements - Undergrament Majorana E 10/31/2010 10/31/2010 159,204.14 159,204.14 444 Improvement Hazard Mit 5/31/2011 5/31/2011 60,774.93 4,460,860.74 445 Improvement Boxis Exca 6/30/2011 7/1/2011 4,460,860.74 4,460,860.74 479 Improvement to UG Hazz 6/30/2012 6/30/2012 6/30/2013 51,019.29 530 Improvements-Haz.Mit.2 6/30/2014 294,893.16 294,893.16 556 Hazard Mitigation Inprov 6/30/2014 6/30/2014 294,893.16 567 D.Campus Excav.Dehum 7/22/2014 7/22/2014 163,874.47 163,874.47 602 Hazard Mitigation 2015 6/30/2015 6/30/2015 6/30/2015 6/30/2015				l.	10,749,336.99	0.00	00.00	10,749,336.99	00:00	0.00	00:00	0.00
410 Improvements - Undergr 6/30/2010 1,210,109.78 1,210,109.78 444 Improvement Majorana E 10/31/2010 169,204.14 159,204.14 446 Improvement Majorana E 10/31/2010 159,204.14 60,774.93 446 Improvement Hazard Mit 5/31/2011 4,460,860.74 4,460,860.74 442 Inprovements Davis Exca 6/30/2012 6/30/2012 6/30/2012 6/30/2012 530 Improvement to UG Hazz 6/30/2013 51,019.29 51,019.29 530 Improvements-Haz.Mit.2 6/30/2013 51,019.29 51,019.29 556 Hazard Mitigation Inprov 6/30/2014 7/22/2014 7/22/2014 294,893.16 567 D.Campus Excav.Dehum 7/22/2014 7/22/2014 163,874.47 163,874.47 602 Hazard Mitigation 2015 6/30/2015 6/30/2015 6/30/2015 6/30/2015	20 -	Underground Improvements										
444 Improvement Majorana E 10/31/2010 10/31/2010 159,204.14 159,204.14 446 Improvement Hazard Mit 5/31/2011 5/31/2011 4,460,860.74 4,460,860.74 472 Improvements Davis Exca 6/30/2012 7/1/2011 4,460,860.74 4,460,860.74 479 Improvements Davis Exca 6/30/2012 6/30/2013 51,019.29 51,019.29 530 Improvements Haz.Mit.2 6/30/2013 51,019.29 51,019.29 556 Hazard Mitigation Inprov 6/30/2014 7/22/2014 294,893.16 31,530.99 567 D.Campus Excav.Dehun 7/22/2014 7/22/2014 163,874.47 163,874.47 602 Hazard Mitigation 2015 6/30/2015 6/30/2015 6/306,085.47 0.00 6,501,490.93 0.00	D.	410 Improvements - Undergro	6/30/2010	6/30/2010	1,210,109.78			1,210,109.78				0.00
446 Improvement Hazard Mit 5/31/2011 4,460,860.74 60,774.93 442 Inprovements Davis Exca 6/30/2011 7/1/2011 4,460,860.74 4,460,860.74 479 Improvements Davis Exca 6/30/2012 6/30/2012 6/30/2012 51,019.29 51,019.29 530 Improvements-Haz.Mit.2 6/30/2013 51,019.29 51,019.29 294,893.16 556 Hazard Mitigation Inprov 6/30/2014 7/22/2014 7/22/2014 31,530.99 31,530.99 567 D.Campus Excav.Dehum 7/22/2014 7/22/2014 163,874.47 163,874.47 163,874.47 602 Hazard Mitigation 2015 6/30/2015 6/30/2015 195,405.46 0.00 6,501,490.93 0.00 0.00		444 Improvement Majorana E	10/31/2010	10/31/2010	159,204.14			159,204.14				0.00
442 Inprovements Davis Exca 6/30/2011 7/1/2011 4,460,860.74 4,460,860.74 479 Improvement to UG Hazz 6/30/2012 6/30/2012 6/30/2012 51,019.29 51,019.29 530 Improvements-Haz.Mit.2 6/30/2014 6/30/2014 294,893.16 294,893.16 294,893.16 556 Hazard Mitigation Inprov 7/22/2014 7/22/2014 7/22/2014 31,530.99 31,530.99 602 Hazard Mitigation 2015 6/30/2015 6/30/2015 6/30/2015 6/30/2015 0.00 6,501,490.93 0.00		446 Improvement Hazard Mit	5/31/2011	5/31/2011	60,774.93			60,774.93				0.00
479 Improvement to UG Hazz 6/30/2012 6/30/2012 6/30/2013 6/30/2013 51,019.29 51,019.29 530 Improvements-Haz.Mit.2 6/30/2013 6/30/2014 294,893.16 294,893.16 294,893.16 556 Hazard Mitigation Inprov 6/30/2014 7/22/2014 7/22/2014 31,530.99 31,530.99 602 Hazard Mitigation 2015 6/30/2015 6/30/2015 6/30/2015 6/30/2015 0.00 0.00	- C 1	442 Inprovements Davis Exca	6/30/2011	7/1/2011	4,460,860.74			4,460,860.74				0.00
2 6/30/2013 6/30/2013 51,019.29 51,019.29 v 6/30/2014 6/30/2014 294,893.16 294,893.16 n 7/22/2014 7/22/2014 31,530.99 31,530.99 e/30/2015 6/30/2015 163,874.47 163,874.47 163,874.47 e/30,0005.47 195,405.46 0.00 6,501,490.93 0.00 0.00	70	479 Improvement to UG Hazz	6/30/2012	6/30/2012	69,223.43			69,223.43				0.00
v 6/30/2014 6/30/2014 294,893.16 294,893.16 n 7/22/2014 31,530.99 31,530.99 6/30/2015 6/30/2015 163,874.47 163,874.47 6/30/2015 6,306,085.47 195,405.46 0.00 6,501,490.93 0.00		530 Improvements-Haz.Mit.2	6/30/2013	6/30/2013	51,019.29			51,019.29				0.00
n 7/22/2014 7/22/2014 31,530.99 31,530.99 6/30/2015 6/30/2015 6/306,085.47 163,874.47 163,874.47 0.00 6,501,490.93 0.00 0.00		556 Hazard Mitigation Inprov	6/30/2014	6/30/2014	294,893.16			294,893.16				0.00
6/30/2015 6/30/2015 163,874.47 163,874.47 163,874.47 6/306,085.47 195,405.46 0.00 6,501,490.93 0.00 0.00		567 D.Campus Excav.Dehum	7/22/2014			31,530.99		31,530.99				0.00
195,405,46 0.00 6,501,490.93 0.00 0.00		602 Hazard Mitigation 2015	6/30/2015	6/30/2015		163,874.47		163,874.47				0.00
					6,306,085.47	195,405.46	00.00	6,501,490.93	00.00	0.00	00.00	00.00

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000 - SD Science & Technology Authority								
	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2015	Retired	Ending
110 - Automobiles	79,255.08	16,900.00	(9,850.00)	86,305.08	54,390.10	10,737.00	(8,864.57)	56,262.53
120 - Building	7,223,085.46	0.00	0.00	7,223,085.46	1,315,880.29	145,753.00	0.00	1,461,633.29
130 - Computer Hardware	416,747.54	34,725.00	0.00	451,472.54	382,050.47	10,275.00	0.00	392,325.47
140 - Equipment & Fixtures	9,102,777.42	783,278.38	(65,179.02)	9,820,876.78	2,411,043.95	627,928.00	(29,107.90)	3,009,864.05
150 - Furniture & Fixtures	74,211.50	0.00	0.00	74,211.50	29,280.33	4,990.00	0.00	34,270.33
160 - Improvements	33,812,540.53	0.00	0.00	33,812,540.53	3,194,356.84	873,000.00	0.00	4,067,356.84
170 - Improvements in Progress	9,675,597.93	15,212,624.36	(551,478.92)	24,336,743.37	0.00	0.00	0.00	0.00
180 - Infrastructure	1,658,242.16	0.00	0.00	1,658,242.16	172,209.39	38,607.00	0.00	210,816.39
190 - Land	1,534,038.04	45,260.00	0.00	1,579,298.04	0.00	0.00	0.00	00.00
200 - Other Non Dep	70,000.00	0.00	0.00	70,000.00	0.00	0.00	0.00	0.00
210 - Underground	10,749,336.99	0.00	0.00	10,749,336.99	0.00	00.00	0.00	0.00
220 - Underground Improvements	6,306,085.47	195,405.46	0.00	6,501,490.93	0.00	00.00	0.00	0.00
	80,701,918.12	16,288,193.20	(626,507.94)	96,363,603.38	7,559,211.37	1,711,290.00	(37,972.47)	9,232,528.90

Year to Date 7/1/2014 through 6/30/2015	Cost of Fixed Assets	Assets		A	Accumulated Depreciation	Depreciation		
Combined	Beginning	Additions	Retired	Ending	Beginning	YTD 6/30/2015	Retired	Ending
110 - Automobiles	79,255.08	16,900.00	(9,850.00)	86,305.08	54,390.10	10,737.00	(8,864.57)	56,262.53
120 - Building	7,223,085.46	0.00	0.00	7,223,085.46	1,315,880.29	145,753.00	0.00	1,461,633.29
130 - Computer Hardware	416,747.54	34,725.00	0.00	451,472.54	382,050.47	10,275.00	0.00	392,325.47
140 - Equipment & Fixtures	9,102,777.42	783,278.38	(65,179.02)	9,820,876.78	2,411,043.95	627,928.00	(29,107,90)	3,009,864.05
150 - Furniture & Fixtures	74,211.50	0.00	0.00	74,211.50	29,280.33	4,990.00	0.00	34,270.33
160 - Improvements	33,812,540.53	0.00	0.00	33,812,540.53	3,194,356.84	873,000.00	0.00	4,067,356.84
170 - Improvements in Progress	9,675,597.93	15,212,624.36	(551,478.92)	24,336,743.37	0.00	0.00	0.00	0.00
180 - Infrastructure	1,658,242.16	0.00	0.00	1,658,242.16	172,209.39	38,607.00	0.00	210,816.39
190 - Land	1,534,038.04	45,260.00	0.00	1,579,298.04	0.00	0.00	0.00	0.00
200 - Other Non Dep	70,000.00	00.00	0.00	70,000.00	0.00	00.00	0.00	0.00
210 - Underground	10,749,336.99	0.00	0.00	10,749,336.99	0.00	0.00	0.00	0.00
220 - Underground Improvements	6,306,085.47	195,405.46	0.00	6,501,490.93	0.00	00.00	0.00	0.00
	80,701,918.12	16,288,193.20	(626,507.94)	96,363,603.38	7,559,211.37	7,559,211.37 1,711,290.00	(37,972.47)	9,232,528.90

Not Fixed assets \$87,13,07448"

SD Science and Technology Authority Consolidated Report 6/30/15 Inventory of Supplies

Balance 6/30/2015	779,000.00	94,346.30	114,650.00	23,975.00	9,842.86	17,400.00	283,536.36	105,772.27	13,372.00		•		6,240.00			22,870.00	5,328.06	354,853.92	70,513.79	143,369.48	10,000.00	15,914.48	47,245.51	140,191,41	131,559.36	94,011.92	5,880.13	40,036.00	21,783.37	65,300.00	2,616,992.22
Deletions Ba	ь	\$ 18,000.00 \$	69	69	\$ 6,057.14 \$	8	49	4	69	8	69	€9	69	8	8	69	69	69	69	ь	69	8	69	49	€9	S	G	4	S	8	\$ 24,057.14 \$
Additions 2015																														\$ 65,300.00	\$ 65,300.00
Balance 6/30/2014	779,000.00	112,346.30	114,650.00	23,975.00	15,900.00	17,400.00	283,536.36	105,772.27	13,372.00	•			6,240.00			22,870.00	5,328.06	354,853.92	70,513.79	143,369.48	10,000.00	15,914.48	47,245.51	140,191.41	131,559.36	94,011.92	5,880.13	40,036.00	21,783.37		2,575,749.36
Deletions 2014	ь	69	69	8	49	8	8	S	S	5	8	69	69	69	8	9	49	69	\$ 126,715.43 \$	8	69	49	69	69	69	S	G	49	69		\$ 126,715.43 \$
Additions 2014																															0
Balance 6/30/2013	779,000.00	112,346.30	114,650.00	23,975.00	15,900.00	17,400.00	283,536.36	105,772.27	13,372.00	•			6,240.00			22,870.00	5,328.06	354,853.92	197,229.22	143,369.48	10,000.00	15,914.48	47,245.51	140,191.41	131,559.36	94,011.92	5,880.13	40,036.00	21,783.37		2,702,464.79
Deletions 2013 Bala	69	\$ 13,000.00 \$		6	s	s	69	69	S	S	S	မ	S	S	s	s	s	S	\$ 283,330.50 \$	69	s	S	69	6	69	S	69	69	S		\$ 296,330.50 \$
Additions 2013																											\$ 5,880.13	\$ 40,036.00	\$ 21,783.37		\$ 67,699.50
<u>Balance</u> 6/30/2012	00.000.02	125.346.30	114.650.00	23,975.00	15,900.00	17,400.00	283,536.36	105,772.27	13,372.00			٠	6,240.00			22,870.00	5,328.06	354,853.92	480,559.72	143,369.48	10,000.00	15,914.48	47,245.51	140,191,41	131,559.36	94,011.92					\$ 2,931,095.79
	65	69	₩.	69	69	ы	69	49	69	69	в	69	ы	69	69	69	69	₩.	69	69	9	69	69	ы	49	69					
Inventory of Supplies.	Soliday Motors/Transfers/Skips	Transformers in Foundty	Transformers in Machine Shop	(from 6Winze) 6800/8000 Pump/Motor Spares	Ropes	Transformers Refurbished (Machine Shop)	Shaft Level Pumps (from Homestake)	Benshaw Softstart Starters (3)	Used Joy Fans (2)	S&CMetal Enclosed Switchgear (1 set of 3)	S&CWall Mounted Metal Enclosed Fuse Mounting	Ross Maint. Transformer S#1M0179357	Baldor Motor (5000LSpare) S#S9069457-001 001	S&CMetal Enclosed Switchgear (5Units)	S&C PGM II Multilin Meter for above in Bay 3	FIVE Pump (Yates Sump Spare) S#1070147	Saligabiper Air Powered Dbl Diaph. PumpS#1905122	Cable from Improvements Progress	Tsurumi Pumps	Refuge Chambers (2)	10, 0 00KVA Transformer S# 161916B	Teodination Cabinets (4) for Ross Pump System	#5 Shaft Axial Flow Mine Fan S# 3533	DAD Pump S#882157	DAD Pump S#882158	(2) Siemen Motors Malloy (for2 X 11 DAD Pumps)	Sky Climber Electric 208V Hoist	AC Generator 1974 kato S#73392	Delta Optical Comparator	200 - 10Ft. Lengths 20"Diameter Piping (Waterinflow)	Totals

PROPERTY MANAGEMENT SYSTEM ASSESSMENT PROPERTY REPORT CERTIFICATE PROPERTY REPORT

69942

Subcontract Number:

94297

Date: March 4, 2015

Property Identification Number	Ą.	Property Description, Manufacturer Name, Agreement No.	DOE/LBNL Property Number	Serial Number	Model Number	Location	Acquisition Date	Condition Code	Grams	Unit Cost	ts	Total Cost
1	-1	Fluke Three Phase Quality Analyzer Meter [PO #3019]	6761832	12990014	435	SDSTA/Ross Hoist Elec Tool Strg Rm	2012-03	1	n/a	\$ 5,895.00		\$ 5,895.00
2	н	Flygt Submersible Power Cable (150' @\$ 38.82/ft.) [PO #2929]	Orange Tag	none	FLY94-21-11	SDSTA/Yates Shaft 4850L	2012-02	н	n/a	\$ 5,823.00		\$ 5,823.00
m	**	Allen Bradley Flex Solid State Con-troller [PO #2860]	6761818	none	2752991	SDSTA/Yates Shaft 4850L	2012-01	1	n/a	\$ 5,375.00		\$ 5,375.00
4	1	Dell Equal Logic SAN [PO #2959]	6761825	50DMKS1	PS4100Xi SCSI	SDSTA Admin Bldg Server Room	2012-03	1	n/a	\$ 38,950.00		\$ 38,950.00
2	1	Thern Ceiling Mount Winch [PO #2896]	Orange Tag	4012-64281	4WS6M12	SDSTA 4850L Yates Station	2012-05	1	n/a	98'9 \$	6,360.00	\$ 6,360.00
Ŋ	н	Thern Single Speed Control [PO #2896]	Orange Tag	none	1057E4	SDSTA 4850L Yates Station	2012-05	1	n/a	\$ 1,055.00		\$ 1,055.00
9	Н	Corning 96 Count Figure 8 Fiber Optic Cable (5000'@ \$1.93/ft) [PO #3163]	Orange Tag	none	096-EUA-T4101D20	SDSTA/Yates Shaft	2012-06	1	n/a	\$ 9,65	\$ 00.059,6	9,650.00
7	н	Commercial Evolu-tion Series 8' "Pivot Gate" [PO #3524]	Orange Tag	ES810-01007	CGC-ES810	SDSTA/Ross	2012-10	1	n/a	\$ 15,489.50		\$ 15,489.50
∞	H	Flygt Submersible Pump with Agitator 50' Cable (No Control) [PO #3699]	Orange Tag	1280005	\$100.251A	SDSTA/Ross Shaft 5000L	2013-01	1	n/a	\$ 20,500.00		\$ 20,500.00
6	н	R&M 5-ton Electric Chain Hoist [PO #4043]	Orange Tag	10026149	LM25-5-015LM12T2C1	SDSTA 4850L Governor's Corner	2013-05	1	n/a	\$ 5,13	5,133.00	\$ 5,133.00
10	H	Vigilant VM Panel (REMICA mic & mounting box, Ethernet & NOC Cards, VM Control switches, Duct Detector, 2-RLCD-C Annumiciators) [PO #13064]	6774245	none	Vigilant VM-RCCM/D (Part #260512)	4850L Davis Campus Fire Alarm System	2013-06	1	n/a	\$ 18,333.70		\$ 18,333.70
11	1	Trojan Locomotive Battery Charger [PO #4136]	Orange Tag	32951	MPL40F600MI	4850L Yates Station	2013-07	1	n/a	\$ 5,68	2,689.00	\$ 5,689.00

15,752.93	\$8,800.00	\$12,556.00	\$13,507.00	\$13,178.88	\$20,823.75	\$6,867.90	\$7,175.00	\$919,808.00	\$25,455.00	62,430.00	6,995.00	10,445.00	11,715.00
\$ 15,752.93 \$	\$8,800.00	\$12,556.00	\$13,507.00	\$13,178.88	\$20,823.75	\$6,867.90	\$7,175.00	\$919,808.00	\$ 25,455.00	\$ 31,215.00 \$	\$ 6,995.00	\$ 10,445.00 \$	\$ 11,715.00 \$
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	*
н	- 4	1	1	1	1	1	1	4	н	1	1	1	÷H
2013-07	2013-08	2013-08	2013-08	2013-08	2013-10	2013-10	2013-11	2014-01	2014-02	2014-02	2014-03	2014-05	2014 06
Ross Hoist Cyber Tool Room	5 Shaft	2600' Yates Pump Station	UG Hazard Mitigation	Ross Hoist Cyber Tool Room	SDSTA/YRoss Shaft 2600L	Warehouse (until	Oro Hondo Fan	Yates Crusher Room	4850L Yates Shaft Davis Campus	#1 - Ross Shaft #2 - Yates Shaft	Temporary Clean Room - Ross 4850L	Hazard Mitigation Crew 4850L	10587
Stock #AFL FSM- 70S/S015591	VSIPF4400-9L	Model 2670	Model 49HP/185/B DLQ/JD14 EPA	R Factory Build to Order		6H-F16K	VAQS-PF-PF-G002- NR-NR-NR-NR-MB- IM-SP1-SP2-SP3	Model C5280	Twin-Track 66	Unit #1 - Model TA-133 NG HLH DA Unit #2 - Model TA-133 NG HRH DA	Model CAF-960-5 Filtered Supply Fan	MIL907521	100H
VG239CX06DPEN4CZ	550210008EF	1350012	Air Compressor SN 201308070067 John Deere Engine SN PE4024R129152	2298662	Pump/Motor Assembly SN 187888; 100 HP Motor SN A1309122094	Pump End only SN 187892	none	none	Serial Number 14011421CA045236-2	Unit #1 - SN 15028 Unit #2 - SN 15029	Serial Number E3792	Serial Number ME160009E	Serial Number
6774177	Orange Tag	6774160	6774153	6777741	UG-no tag (see 11.7.2013 email)	Orange Tag	Orange Tag	DOE# 6690569 (GFP)	727772	#1 - 6777703 #2 - 6777710	Orange Tag	6777659	6783087— Withdrawn 7.10.2014
Fujikura 70S Fusion Splicer w/Cleaver & Battery Drop (PO #4252)	Baldor 400 hp, 547 amp Power Module (PO #4321)	Flygt Submersible Pump Model 2670 (PO #4310)	Sullair 185 Portable Air Compressor 2013 SU 185DLQ (PO 4206)	Fluke OptiFiber Pro OTDR Fiber Testing Tool (PO #4302)	Cornell 6H-F16 Frame Mounted Pump/Motor Assembly (PO 88163)	Cornell 6H-F16K Spare Pump (PO 58163)	Maestro Vigilante AQS Air Quality Station (PO 4326)	Wheelift Transporter Model (Auto Guided Daya Bay vehicle - Mod 20)	Movex Twin Track 66 Track-O-lift, stair climber, remote, sides/backrest (PO 4739)	Titan Air Make-Up Units Natural Gas, 50,000 CFM, 3,620,000 BTU [PO 14613]	CAF-960-5 Blow- Through/Wall Supply- Air Package Fan (PO 4833)	Big Blue 300 Pro Kubota CC/CV (1800 RPM) Welder (PO 4981)	Olympus 1000i Digital Ultrasonic Flaw Detector (PO
H	1			Н	1	н		1	н	2	1	1	
12	13	14	15	16	17	18	19	20	21	22	23	24	25

		Warren Battery mtd in								_		
		Std Trojan Battery Box		Batteries: SN 73362 &								
26	2	(PO 5495)	Orange Tags	73363	36C 72V 510AH	UG locations	2014-10	1	n/a	\$	9,583.00	n/a \$ 9,583.00 \$ 19,166.00
		Bobcat SB200								-		
		Snowblower X 78										
27	Н	attachment (PO 5836) Orange Tag	Orange Tag	713004771	SB200	Surface - WWTP	2015-02	1	n/a		6,133.00	\$ 6,133.00 \$ 6,133.00
		Benson Medical CCA-										
		200mini Plus System	TBD	68205	(Item #500303-13)	E&O Bldg.	2015-04	1	n/a	s	\$ 2,990.00 \$	\$ 5,990.00
28	1	Audiometer			(55 000000 1101)							

\$ 1,293,336.66

	CONDITION CODES	I CODES
	re purpose of marcating contained of	For the purpose of maldanig Containon of Property, preuse use the Janowing Cours.
Condition Code	Brief Description	Expanded Definition
T	Excellent	Property which is in new condition or unused condition and can be used immediately without modifications or repairs.
4	Usable	Property which shows some wear, but can be used without significant repair.
7	Repairable	Property which is unusable in its current condition but can be economically repaired.
×	Salvage	Property which has value in excess of its basic material content but repair or rehabilitation is impractical and/or uneconomical.
s	Scrap	Property which has no value except for its basic material content.

At the close of an agreement, ALL Government Furnished Property (GFP) and Subcontractor Acquired Property (SAP) including materials must be accounted for regardless of the value of the property.

Residual Materials: Remaining property that may be incorporated into or attached to a property item. It includes, but is not limited to precious metals, raw or processed materials, parts, components, assemblies or supplies

South Dakota Science and Technology Authority Board Meeting – September 17, 2015 Agenda Item: 06D Financial Report Continuation – Mr. Mike Headley 6D. Attached is the Fiscal Year 2014-2015 Per Diems Report.

Recommended Action:

PER DIEM PAYMENTS MADE TO BOARD MEMBERS IN FY 2015

Date	<u>Name</u>	<u>Purpose</u>	Amount
07/18/14	Casey Peterson	Teleconference with Mike Headley	\$75.00
09/12/14	Pat Lebrun	Audit Committee teleconference	\$75.00
09/12/14	Paul Christen	Audit Committee teleconference	\$75.00
09/26/14	Tom Adam	SDSTA Board Meeting (joined by telephone)	\$75.00
09/26/14	Paul Christen	SDSTA Board Meeting	\$75.00
09/26/14	Dana Dykhouse	SDSTA Board Meeting	\$75.00
09/26/14	Pat Lebrun	SDSTA Board Meeting (joined by telephone)	\$75.00
09/26/14	Casey Peterson	SDSTA Board Meeting (joined by telephone)	\$75.00
10/10/14	Casey Peterson	Attended LBNE-LBNO Geotechnical Review	\$75.00
11/07/14	Casey Peterson	Visitor Center Content Meeting (joined telephonically)	\$75.00
11/21/14	Pat Lebrun	Audit Committee Meeting, telephonic	\$75.00
11/21/14	Paul Christen	Audit Committee Meeting, telephonic	\$75.00
12/19/14	Dr. Ani Aprahamian	SDSTA Board Meeting (joined by telephone)	\$75.00
12/19/14	Paul Christen	SDSTA Board Meeting	\$75.00
12/19/14	Pat Lebrun	SDSTA Board Meeting	\$75.00
12/19/14	Dana Dykhouse	SDSTA Board Meeting (joined by telephone)	\$75.00
12/19/14	Casey Peterson	SDSTA Board Meeting	\$75.00
01/30/15	Casey Peterson	Misc discussions with ED during the month of Jan	\$75.00
02/27/15	Pat Lebrun	REACH Meeting	\$75.00
03/27/15	Paul Christen	SDSTA Board Meeting (joined by telephone)	\$75.00
03/27/15	Pat Lebrun	SDSTA Board Meeting (joined by telephone)	\$75.00
03/27/15	Casey Peterson	SDSTA Board Meeting	\$75.00
04/10/15	Casey Peterson	Strategic Planning interview	\$75.00
05/08/15	Dr. Ani Aprahamian	Strategic Planning interview	\$75.00
05/08/15	Paul Christen	Strategic Planning interview	\$75.00
05/08/15	Pat Lebrun	Strategic Planning interview	\$75.00
05/22/15	Paul Christen	Telephonic Board Meeting, Audit Committee Meeting	\$150.00
05/22/15	Dana Dykhouse	Telephonic Board Meeting	\$75.00
05/22/15	Pat Lebrun	Telephonic Board Mtg, Reception for UG Science Conference	\$300.00
		Audit Committee Meeting, Strategic Planning Workshop	
05/22/15	Casey Peterson	Reception for UG Science Conference, Strategic Planning Workshop	\$150.00
06/05/15	Dr. Ani Aprahamian	Nominating Committee Meeting	\$75.00
06/05/15	Dana Dykhouse	Nominating Committee Meeting	\$75.00
06/19/15	Pat Lebrun	REACH Committee Meeting	\$150.00
06/30/15	Dr. Ani Aprahamian	SDSTA Board Meeting	\$150.00
06/30/15	Paul Christen	SDSTA Board Meeting	\$150.00
06/30/15	Dana Dykhouse	SDSTA Board Meeting	\$150.00
06/30/15	Pat Lebrun	SDSTA Board Meeting	\$75.00
06/30/15	Casey Peterson	SDSTA Board Meeting	\$75.00

Total \$3,525.00

PER DIEM PAYMENTS MADE TO BOARD MEMBERS IN FY 2015

<u>Date</u>	Name	Purpose		<u>Amount</u>
09/18/14	Tom Adam	TOM ADAM SDSTA Board Meeting (joined by telephone)	Adam Total	\$75.00 \$75.00
		Dr. Ani Aprahamian		
12/18/14	Dr. Ani Aprahamian	SDSTA Board Meeting (joined by telephone)		\$75.00
05/01/15	Dr. Ani Aprahamian	Strategic Planning interview		\$75.00
06/01/15	Dr. Ani Aprahamian	Nominating Committee Meeting		\$75.00
06/30/15	Dr. Ani Aprahamian	SDSTA Board Meeting		\$150.00
			Aprahamian Total	\$375.00
		B 101 11		
09/05/14	Paul Christen	Paul Christen Audit Committee teleconference		¢75.00
09/05/14	Paul Christen	SDSTA Board Meeting		\$75.00
11/13/14	Paul Christen	Audit Committee Meeting, telephonic		\$75.00 \$75.00
12/18/14	Paul Christen	SDSTA Board Meeting		\$75.00 \$75.00
03/20/15	Paul Christen	SDSTA Board Meeting (joined by telephone)		\$75.00 \$75.00
04/29/15	Paul Christen	Strategic Planning interview		\$75.00
05/11/15	Paul Christen	Telephonic Board Meeting		\$75.00
05/18/15	Paul Christen	Audit Committee Meeting		\$75.00
06/30/15	Paul Christen	SDSTA Board Meeting		\$150.00
00/00/10	r dar omloton	ese in tseard incoming	Christen Total	\$750.00
		DANA DYKHOUSE		
09/18/14	Dana Dykhouse	SDSTA Board Meeting		\$75.00
12/18/14	Dana Dykhouse	SDSTA Board Meeting (joined by telephone)		\$75.00
05/11/15	Dana Dykhouse	Telephonic Board Meeting		\$75.00
06/01/15	Dana Dykhouse	Nominating Committee Meeting		\$75.00
06/30/15	Dana Dykhouse	SDSTA Board Meeting		\$150.00
			Dykhouse Total	\$450.00
		PAT LEBRUN		
09/05/14	Pat Lebrun	Audit Committee teleconference		\$75.00
09/18/14	Pat Lebrun	SDSTA Board Meeting (joined by telephone)		\$75.00
11/13/14	Pat Lebrun	Audit Committee Meeting, telephonic		\$75.00
12/18/14	Pat Lebrun	SDSTA Board Meeting		\$75.00
02/03/15	Pat Lebrun	REACH Meeting		\$75.00
03/20/15	Pat Lebrun	SDSTA Board Meeting (joined by telephone)		\$75.00
04/30/15	Pat Lebrun	Strategic Planning interview		\$75.00
05/11/15	Pat Lebrun	Telephonic Board Meeting		\$75.00
05/17/15	Pat Lebrun	Reception for UG Science Conference		\$75.00
		•		

Page 2 of 3 M. Knight, 9/3/15

PER DIEM PAYMENTS MADE TO BOARD MEMBERS IN FY 2015

<u>Date</u>	Name	<u>Purpose</u>	<u>Amount</u>
05/18/15	Pat Lebrun	Audit Committee Meeting	\$75.00
05/21/15	Pat Lebrun	Strategic Planning Workshop	\$75.00
06/11/15	Pat Lebrun	REACH Committee Meeting	\$75.00
06/12/15	Pat Lebrun	REACH Committee Meeting	\$75.00
06/30/15	Pat Lebrun	SDSTA Board Meeting	\$75.00
		Lebrun Tota	\$1,050.00
		CASEY PETERSON	
07/18/14	Casey Peterson	Teleconference with Mike Headley	\$75.00
09/18/14	Casey Peterson	SDSTA Board Meeting (joined by telephone)	\$75.00
10/08/14	Casey Peterson	Attended LBNE-LBNO Geotechnical Review	\$75.00
10/30/14	Casey Peterson	Visitor Center Content Meeting (joined telephonically)	\$75.00
12/18/14	Casey Peterson	SDSTA Board Meeting	\$75.00
01/30/15	Casey Peterson	Misc discussions with ED during the month of January	\$75.00
03/20/15	Casey Peterson	SDSTA Board Meeting	\$75.00
04/10/15	Casey Peterson	Strategic Planning interview	\$75.00
05/17/15	Casey Peterson	Reception for UG Science Conference	\$75.00
05/21/15	Casey Peterson	Strategic Planning Workshop	\$75.00
06/30/15	Casey Peterson	SDSTA Board Meeting	\$75.00
		Peterson Tota	\$825.00

South Dakota Science and Technology Authority Board Meeting – September 17, 2015

Fin	Financial Report Continuation – Mr. Mike Headley						
6E. Attached is a copy of the signed State of South Dakota Captive Grant Agreement.							

Agenda Item: 06E

STATE OF SOUTH DAKOTA BUREAU OF ADMINISTRATION

GRANT AGREEMENT

THIS AGREEMENT is made and entered into effective the date of the last signature hereon by and between the State of South Dakota, acting through its Bureau of Administration, 500 E. Capitol Avenue, Pierre, South Dakota, 57501 ("BOA" and the South Dakota Authority Captive Insurance Company, LLC, 1429 E. Sioux Avenue, Pierre, South Dakota, 57501 ("the Company").

RECITALS

- A. On March 13, 2015, Governor Daugaard signed into law 2015 House Bill 1187 ("HB 1187"), which provided for an appropriation of \$2,000,000.00 to BOA for the purposes of a grant to the Company to capitalize the company and pay expenses associated with providing liability coverage for the Company's members (the "Grant").
- B. On August 12, 2015, the South Dakota Division of Insurance issued the necessary authorizations for the Company to begin providing insurance coverage to its members.
- C. On August 12, 2015, the South Dakota Secretary of State issued a certificate of organization for the Company.
- D. The parties desire to provide for the transfer of the Grant funds and to establish the conditions for the use of the Grant by the Authority.

AGREEMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties AGREE as follows:

- 1. The amount of the Grant is \$2,000,000.00.
- 2. Possession, control and administration of the Grant are hereby transferred to the Company, subject however to the Grant funds remaining within the liability captive insurance company fund created pursuant to HB 1187 and to the other applicable provisions of HB 1187.
- 3. The Company agrees to use the Grant solely for the purposes authorized in HB 1187 and for no other purposes. In the event the Grant or any part thereof is expended for unauthorized purposes, the Company shall promptly repay any such amount to BOA. In the event the Company ceases business or dissolves its existence, any part of the Grant then remaining, less the reasonable and necessary expenses of winding up the Company's affairs, and less any amounts required to be maintained on account of claims or potential claims or otherwise required by the South Dakota Division of Insurance or any successor regulatory entity shall be paid over to BOA. Upon a final determination by a regulatory body with jurisdiction that no further claims reserves are required to be held, any remaining balance of the Grant shall be paid over to BOA. The repayment provisions of this paragraph 3 shall survive performance of this Agreement by BOA and shall survive termination of this Agreement for any reason.

- 4. The Company shall from time to time as reasonably required by BOA provide such written or oral reports on its business and affairs as BOA may request; provided, however, that the Company shall not be required to disclose information concerning specific claims, defense strategies, strategies concerning negotiations with reinsurers, attorney-client privileged information or other, similar information which a captive insurer providing coverage to a commercial venture would normally consider to be confidential. The reporting requirements of this paragraph 4 shall survive performance of this Agreement by BOA and shall survive termination of this Agreement for any reason.
- 5. Except for the repayment provisions of paragraph 3 above and the reporting requirements of paragraph 4 above, which shall survive, this Agreement shall be deemed fully-executed and completed upon the transfer of the Grant to the Company.

STATE OF SOUTH DAKOTA	SOUTH DAKOTA AUTHORITY
BUREAU OF ADMINISTRATION	CAPTIVE INSURANCE COMPANY, LLC
BY: Jold	BY:_ Swieshall
Jeff Holden, Acting Commissioner	Ron Wheeler, President
DATE: 8-19-15	DATE:8-20-2015

South Dakota Science and Technology Authority Board Meeting – September 17, 2015

Executive Director's Report – Mr. Mike Headley

The Executive Director's Report includes the following:

- 7A. SDSTA August Monthly Report (attached)
- 7B. E&O Curriculum Development (10 min presentation followed by 5 min Q/A)
- 7C. Sanford Lab Homestake Visitor Center Update (10 min presentation followed by 5 min Q/A)

Agenda Item: 07

7D. Declarations of Surplus

South Dakota Science and Technology Authority Monthly Report August 2015

Mike Headley, Laboratory Director Executive Summary

Science

CASPAR and BHSU Underground Campus Facilities Completed

Construction was completed on the facility space for the Compact Accelerator System for Performing Astrophysical Research (CASPAR) experiment and the Black Hills State University (BHSU) Underground Campus (BHUC). Two shipments of accelerator equipment from Notre Dame were completed in July and August and the CASPAR team was given an authorization for initial installation at the 4850L Ross Campus. By the end of the month, all of the accelerator equipment had been transported underground and many of the main beamline magnets had been placed in the accelerator hall.

For the BHUC, authorization for initial installation activities was issued in early September. The first main activity is the installation of vacuum-jacketed piping for the liquid nitrogen distribution system.

Large Underground Xenon - LUX

LUX continues to be in a stable data-taking mode and has accumulated more than 190 live days with a goal of reaching 300 live days. Xenon purity dipped slightly as a result of brief power outages that affected circulation. Xenon purity is more than sufficient for high-quality data taking operations. The end of data-taking continues to be projected as mid-2016. As detector operations remain stable and as SDSTA personnel increase their level of direct support for regular tasks, the number of scheduled LUX hours continues to be modest. In August, the average LUX crew consisted of five people for a combined total of 300 hours.

MAJORANA DEMONSTRATOR - MJD

Dr. Alana Opper, a nuclear physics program manager from the National Science Foundation (NSF), visited Sanford Lab to tour both the MJD and CASPAR experiments on the 4850L and have discussions with staff.

Acceptance testing of the final enriched germanium detectors was completed in August, after which the five detectors were removed from the vendor-supplied cryostats for further tests. Further tests were conducted on germanium detectors involved in a previous incident with the glovebox lift, and it was determined that two detectors will need to be returned to the vendor.

Background and calibration data continue to be collected with Module 1 inside the main shield. In August, there was good progress on the inner copper shield needed to complete the main shield. Half of the plates have been completed so far, and machining for the remaining plates will complete in early September. There was progress on detector string assembly for Module 2, and by the end of the month a second detector string had been assembled and was undergoing tests. The goal is to have Module 2 in the shield by the end of 2015. MJD averaged more than 10 people working underground in August (1834 hours).

Ross Shaft Rehabilitation

The Ross Crew refurbished 72 feet of shaft length in August and has installed 3,086.6 feet of new shaft steel overall. Four new steel sets were installed (181 - 184). The 6-month required non-destructive testing on all hoist ropes supporting the Ross conveyances were performed successfully. Design and shop drawings have been updated to address minor steel fabrication modifications for installation of steel within the Ross pillar. TrueNorth Steel will take possession of the next phase (sets 185 - 245) of raw steel early in September. The Ross Crew is expected to resume steel work during the week of September 14.

Yates Shaft

Top Down Maintenance (TDM) addressed 128 separate panels/pieces in the shaft. TDM in the skip compartment was conducted between sets 453 and 468 and has reached the brow of the 3050L where the station will be rehabilitated. Fabrication of a heavy duty north skip bonnet was completed and it was delivered in early September. Crews transported 215 loads of material underground to support science and construction efforts.

South Dakota Science and Technology Authority Monthly Report August 2015

Facility Infrastructure

At the end of August, the underground water level was at 5,712 feet; a drop of 35 feet. Water inflows above the 3650L are averaging 325 gallons per minute. Crews continued work on the installation of a six-inch waterline from the Yates to the Ross Campus across the 4850 Level to provide industrial water for fire suppression systems.

Engineering

For the Long-Baseline Neutrino Facility (LBNF)/Deep Underground Neutrino Experiment (DUNE), 100% facility preliminary designs were completed in August, and cost and schedule estimates are expected in September. The Critical Decision 3A (CD-3A) review has been scheduled, with a Director's review October 27-29 and the DOE review December 2-4. Both reviews are planned to be held at Sanford Lab in Lead, SD.

The Engineering team continues to support the LBNF Environmental Assessment (EA) process for National Environmental Policy Act NEPA. The comment period concluded July 10. Draft responses to the comments are under review. No new or unexpected comments were received. A Finding of No Significant Impact (FONSI) conclusion is expected.

The Davis Memorial ring sculpture was completed and installed in early August and a dedication held August 26.

Environment, Health and Safety

The SDSTA had zero recordable injuries again in August and now eleven months total with no recordable injuries. The EHS Team reviewed Job Hazard Analyses (JHAs) for Compact Accelerator System Performing Astrophysical Research (CASPAR) experiment equipment deployment and JHAs for Black Hills Underground Campus liquid nitrogen piping installation and pressure tests.

Communications / Education and Outreach / Cultural

The Cultural Advisory Committee met on August 31. Several presentations were made by SDTSA staff to the committee. The committee also reviewed progress towards fulfilling the recommendations of the last annual review in February 2015, discussed changes in the charter to meet the responsibilities of the LBNF/DUNE Programmatic Agreement, and toured the new Sanford Lab Homestake Visitor Center.

The Black Hills State University (BHSU) Bridge program provides a week of orientation for American Indian students transitioning into college at BHSU. Education staff gave an introduction to Sanford Lab and an overview of student opportunities. The next day 19 of the students toured the Yates Hoistroom and the Visitor Center.

The E&O Department is nearing the completion of six curriculum units that are aligned with the new South Dakota Science Standards and that feature the science of Sanford Lab. Two units have been developed for each of three grade bands, and each unit encompasses 7-10 days of classroom instruction. In 2015-2016, Sanford Lab E&O staff will directly support teachers across the state whom wish to pilot one of the units.

The E&O team also is offering school visits that include 20 to 40-minute presentations in an assembly or classroom format. These will be short, engaging experiences designed to stimulate interest in Science, Technology, Engineering, and Math (STEM) fields and the exciting science happening at Sanford Lab. Topics will change annually. Also, a limited number of field trips will be offered for schools to travel to Sanford Lab. Program offerings are grade-band appropriate and aligned with South Dakota science standards. A new website is now open for schools to apply.

Finance and Contracts

For Sanford-funded work, the SDSTA finished August \$6,809 under budget and is \$24,010 under budget for the SD state fiscal year. For DOE-funded operations, the SDSTA finished July \$173,632 under budget and is over budget \$251,221 for federal FY2015. Six million dollars total over a three year period has been secured from the Governor's Office of Economic Development (GOED) to fund LUX-ZEPLIN (LZ) experiment facility improvements and xenon purchases. Two million dollars in a private loan has been committed to purchase xenon. Loan documents are in work.

Underground Access Department William McElroy, Director of Underground Access

Ross Shaft

The Ross Crew refurbished 72 feet of shaft length in August and has installed 3,086.6 feet of new shaft steel overall. Steel installation was comprised of four new steel sets (181E-184B). The 6-month required non-destructive testing on all hoist ropes supporting the Ross conveyances were performed successfully. Design and shop drawings have been updated to address minor steel fabrication modifications for installation of steel within the Ross pillar. TrueNorth Steel will take possession of the next phase (sets 185CD – 245B) of raw steel early in September. The Ross Crew is expected to resume steel work during the week of September 14. The shaft received delivery of the IVAC500 vacuum system on a rental basis for cleaning the Ross sump below the 5000L. The IVAC system is a venturi style vacuum pump that will suck the fine material from the sump and discharge the material into a containment area over 200 feet away. Initial tests of this system have been positive.

Yates Shaft

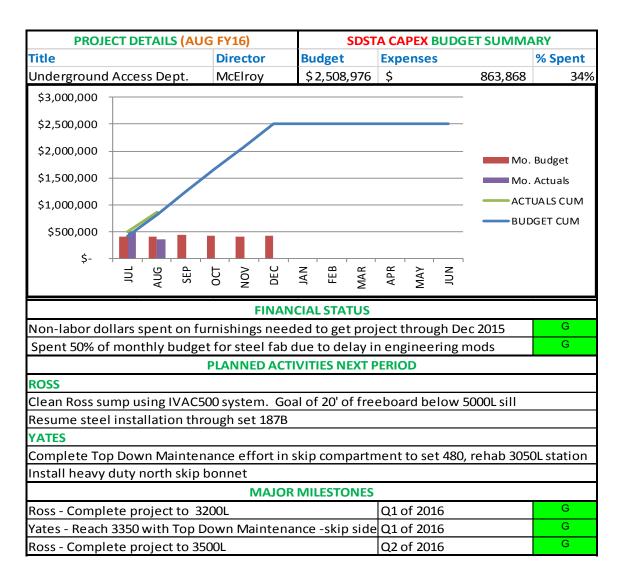
Top Down Maintenance (TDM) addressed 128 separate panels/pieces of the shaft within August. Top Down Maintenance in the skip compartment was conducted between sets 453 and 468 and has reached the brow of the 3050L where the station will be rehabilitated. Fabrication of a heavy duty north skip bonnet is complete and is scheduled for delivery in early September. Crews transported a 215 loads of material underground to support science and construction efforts. The demobilization of the contractor responsible for building out the Compact Accelerator System for Performing Astrophysical Research (CASPAR)/Black Hills State University Underground Campus (BHUC) lab space has been completed





YATES: Fabricating North Skip Bonnet

ROSS: Installing 2900L Station Gates



Facility Infrastructure Department Tim Baumgartner, Director of Facility Infrastructure

Summary

Facility Infrastructure effort in August was directed to the following areas: facility maintenance, equipment repair, preventative maintenance, electrical, and cyber infrastructure. During June, the facility infrastructure team continued to work extensively with the Engineering and Science Departments to focus on refining the operations and maintenance of specific subsystems including carbon monoxide (CO) monitoring, underground phones, leaky feeder (radio), power quality, building upgrades, pumping, dewatering, hoist maintenance and repairs, shaft and science support, and construction projects.

Davis Campus Maintenance

The team monitored and assisted with new equipment installation and ensured the manufacturer standards were met. Electrical inspections and documentation for Surface Lab equipment are continuing. Also, residue acid from copper cleaning was transported to the surface. Yates Shaft personnel assisted with delivery of supplies to the Davis Campus and participated in evacuation drills. Air handling equipment preventive maintenance actions continues with Johnson Controls. The MAJORANA DEMONSTRATOR (MJD) heat exchanger and chiller water pipe insulation replacements continue.

Surface Facility Maintenance Building and Grounds

The SDSTA completed all seven (7) day, thirty (30) day, and annual (360) day preventative maintenance activities. Three staff members participated in the monthly Safety Committee meeting. Boart drill and jackleg repairs continue and non-destructive testing and oiling of ropes at the Yates and Ross Shafts were completed. Two hundred and twenty-five tons of asphalt millings were delivered for road and yard repairs.

Waste Water Treatment Plant (WWTP)

At the end of August, the water level in the underground pool was at 5,712 feet; a gain of 35 feet. Water inflows above the 3650L are averaging 325 gallons per minute. The team continues to support the MJD experiment with neutralizing chemical by-products of their process. All preventative maintenance duties were performed. Facility-wide cleanup and disposal of abandoned in place equipment is continuing. Storm water inspections continue. Preparations for cleaning and repairing the Rotating Biological Contactor (RBC) channel are underway as well as continuing to refine backwash sequences on the filters.

Transportation and Mobile Equipment

The team performed vehicle preventative maintenance actions and repairs to fleet and site vehicles. In addition, the team maintained underground locomotives and support equipment. Also, maintenance on the skid steer loaders and air compressors was completed along with a review of consumable component usage over time for the Fletcher Bolter.

Electrical and Cyber Infrastructure

During August, the SDSTA performed shaft pump preventative maintenance. The team continues to support the Ross Shaft rehabilitation project with the relocation of power cables in the shaft as the new steel is installed. The team continues to work reviewing and modifying the underground communications infrastructure to ensure each level has functional copper-based phones and FEMCO (i.e. twisted pair) phones at each underground facility level; cable replacement continues in the Ross Shaft below the 1250L to the 2450L. The team also continues Level monitoring, 4100L sump project control, and the Compact Accelerator System for Performing Astrophysical Research (CASPAR) and Black Hills State University Underground Campus (BHUC) inspections, outfitting, and installations.

Dewatering

The dewatering team is currently focusing on high-pressure water systems and shaft rehabilitation support. Also, check valve installation and 1250L pump room upgrades continue as well as various pump room repairs/upgrades continue. Installation of six-inch waterline from the Yates to the Ross Campus across the 4850Level is progressing. Also, Standard Operating Procedures (SOPs) and Job Hazard Analyses (JHAs) continue to be developed.

Engineering Department Joshua Willhite, LBNF Far Site Conventional Facilities Manager

Long-Baseline Neutrino Facility (LBNF) and Deep Underground Neutrino Facility (DUNE)

Arup, USA has now provided a 100% preliminary design deliverable for the reference LBNF design. This design is currently being reviewed and cost estimates are in development. This design and corresponding cost estimates will be used as the basis of the Critical Decision 3A (CD-3A) review planned later this year. The CD3A review has been scheduled, with a Directors Review October 27-29 and the DOE Review December 2-4. Both reviews are planned to be held at Sanford Lab in Lead, SD.

The Engineering team continues to support the LBNF Environmental Assessment (EA) process for National Environmental Policy Act NEPA. The comment period concluded July 10. Draft responses to the comments are under review. No new or unexpected comments were received. A Finding of No Significant Impact (FONSI) conclusion is expected.

Discussions continue with the South Dakota Department of Environment and Natural Resources (DENR) and the Federal Environmental Protection Agency (EPA) to establish an agreement for use of the former Gilt Edge Superfund Mine site as a repository for LBNF excavated rock. It was determined that additional engineering study was required to define maximum design and implementation costs associated with the addition of the LBNF excavated rock. CDM Smith, the engineering firm that developed the Gilt Edge Remedial Action Plan, submitted an initial report in July with a recommendation to provide additional modeling and evaluate other areas for beneficial use of the material. This recommendation was converted to a change order, with results in September.

Significant coordination with the DUNE project to enhance understanding of shaft constraints was initiated in April and continued into May. This coordination has evolved and combines with weekly interface discussions to ensure all interfaces are captured. Arup, USA also led a logistics workshop and is following with a detailed study to coordinate all activities associated with the Sanford Lab site, including operations, existing science, LUX-ZEPLIN (LZ), LBNF, and DUNE. This included a 3-day workshop in August including all stakeholders (LBNF, DUNE, LUX, LZ, MJD, CASPAR, BHUC, and Sanford Underground Research Facility Operations). A draft report is scheduled to be delivered September 10 to all stakeholders for review and comment. Any feedback received will be incorporated in a final report scheduled for delivery October 9.

CASPAR (Compact Accelerator System for Performing Astrophysical Research) and BHSU Underground Campus (BHUC)

The CASPAR and BHSU Underground Campus spaces were completed in August. CASPAR experiment installation has commenced and is making very good progress. BHSU is working through the details of installing LN pipes and coordinating the move in of the first low background counters. A commissioning agent is scheduled to provide verification of all systems operations the week of September 7th, after which all contracted construction will be completed.

In support of both the CASPAR and BHSU Underground Campus, a new water supply is required to supply both the cooling system and the fire sprinkler system. The only source currently available at the 4850L is through the Yates Shaft, so this new pipe must originate there. This project continued progress through August with concrete wall construction at the 4100L and pipe hanger and ground support installation on the 4850L.

Sanford Laboratory Homestake Visitor Center

The SDSTA Board of Directors approved additional funding in July for a tribute monument created from part of the original Ray Davis neutrino experiment. South Dakota artist laureate Dale Lamphere completed construction of this monument in August, and it was installed on August 24 followed by a dedication on August 26. The dedication was well attended and the monument has been well received. Several minor items remain on a punch list for completion of the Visitor Center, but this will be the last month to report on this project.

Environment, Health and Safety (EHS) Department Noel A. Schroeder, EHS Director

Environmental Communication

The South Dakota Department of Environment and Natural Resources (DENR) was contacted concerning the Waste Water Treatment Plant (WWTP) shut down scheduled for September 7-11. Barrick was contacted concerning vegetation 'stress' on the Yates Waste Rock pile. The dead vegetation is on Barrick's property (after a thorough review) and is likely a result of chemical interaction with the waste rock. Barrick is looking into possible causes.

Environmental Compliance

Water

Waste Water Discharge Summary through September 1, 2015:

- Total water discharged through outfall 001 since June 5, 2008: 5,127,636,633 gallons
- Total Underground water treated since June 5, 2008: 3,012,878,544 gallons
- Total Tailing water treated since June 5, 2008: 2,256,849,332 gallons
- Total water discharged to sewer since June 5, 2008: 102,258,487gallons

There continues to be no news in regard to the renewal for the National Pollution Discharge Elimination System (NPDES) Permit SD0000043. SDSTA has been legally operating (discharging underground water and Barrick's tailing water) under this expired, existing permit.

The July Discharge Monitoring Report (DMR) was completed in the month of August. There were no violations. The DMR was electronically filed utilizing the NetDMR reporting tool.

The Davis Campus wash water was sampled for coliform/bacteria in August and indicated no bacteria.

The third quarter storm water compliance inspection was completed in August. An additional inspection was completed as a result of a 1-inch rain storm (occurring within a 24-hour window).

The annual bio-assessment and stream chemistry monitoring of Whitewood and Gold Run Creeks were performed by GEI Consultants, Inc.

The annual SDSTA Comprehensive Site Evaluation for Storm Water Discharge Permit SDR00B507 was completed. Various repairs were made to several storm water sediment control sites.

The annual DMR Quality Analysis (35) reporting was submitted to the DENR.

Air

Data continues to be collected for stationary internal combustion engines.

Solid Waste

Recyclables (paper, cardboard, metals, plastic) continue to be collected, picked up by Pacific Steel, a local vendor, and money received for these items.

A leak was discovered in a 5-gallon pail of hazardous waste in the hazardous waste storage building. The building has secondary containment so the leak did not escape into the environment. The leaked material was cleaned up and the waste was repackaged. The leak was caused by a liner failure in the steel 5-gallon container as the waste (WWTP laboratory reagent) ate through the liner and steel. A new liner (plastic vs. epoxy paint) will be used in the future with this waste.

National Environmental Policy Act (NEPA)

The Long Baseline Neutrino Facility (LBNF)/Deep Underground Neutrino Experiment (DUNE) Environmental Assessment (EA) Programmatic Agreement (PA) was finalized in August. Comments were received from the South Dakota State Historical Preservation Office and the Federal Advisory Council on Historical Preservation.

The SDSTA Cultural Advisory Committee was updated on the EA and the PA specifically citing the role and expected activities of the Cultural Advisory Committee.

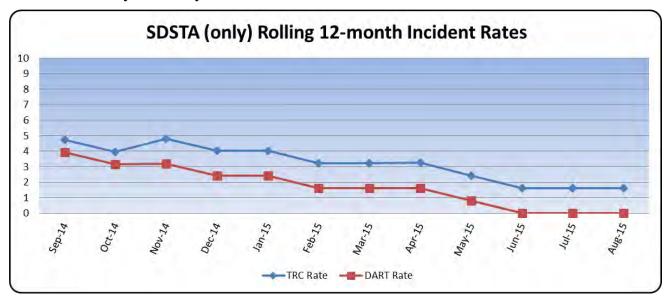
Environmental Support Tasks

Material Safety Data Sheets (MSDS) were inputted into the MSDS database and the database was updated. Many MSDSs are out of date with the new Global Harmonized System requirements. EHS is investigating the linking (or incorporating) of the Fermilab's Hazard Communication (HazCom) database for Safety Data Sheets (SDSs) to the Sanford Lab database for SDSs.

Several EHS safety walk-throughs were completed at the WWTP, Davis Campus, and Ross Campus. Safety items were noted and addressed or are being addressed (documented in the EHS directory). The sumps on the 4850L were labeled as confined spaces.

Testing of various non-chlorinated solvents was conducted to replace two chlorinated solvents currently on-site.

Health and Safety Summary



TRC = more than first aid treatment was given.

DART = more than first aid treatment was given AND restrictions were job limiting or the employee could not work. (Subset of a TRC)

August 2015 DARTS/TRC:

No events to report

August 2015 First Aid Cases:

No events to report

August 2015 Category 1 or 2 Events:

No events to report

August 2015 Category 3 Events:

• No events to report

August 2015 Items of Interest:

- 1. Revised Ross Campus site-specific training document
- 2. Completed air and water sampling report for 4100L Yates future sump site
- 3. Conducted monthly Annual Refresher Training for Operations personnel
- 4. Approved seven Underground Guides during the month
- 5. Monitored radon during 2000L airflow monitor installation
- 6. Provided Janitor Training to new contractor employee
- 7. Conducted Emergency Response Team (ERT)/Underground Rescue monthly training; Prepared and performed audiograms for ERT members as well as yearly physicals
- 8. Provided guide services for a researcher to the 800L for Biology sampling

- 9. Performed weed control on several areas where leafy spurge was beginning to develop
- 10. Compiling revisions on the 5-Point Safety Card
- 11. Completed noise monitoring report for the Fletcher bolter operator at the 4850L west drift and at the Ross and Yates Hoist buildings
- 12. Examined biological growth at 4850L dehumidifier concrete pad
- 13. Organized and cleaned the 4850L Refuge Chamber; ordered new food and water provisions to replace expired provisions
- 14. Conducted monthly fire extinguisher inspections facility-wide
- 15. Reviewed Job Hazard Analysis (JHA) for Compact Accelerator System Performing Astrophysical Research (CASPAR) mounting accelerator pressure chamber; Reviewed and approved CASPAR Safety Analysis document as well as the CASPAR Safety Analysis document
- 16. Reviewed JHA's for Black Hills Underground Campus pressure tests and vacuum jacketed pipe installation
- 17. Performed radon monitoring of Yates Ramp
- 18. Installed Personal Protective Equipment signage at the Ross Headframe
- 19. Provided safety oversite during Davis Ring installation at the Visitor Center

Science Department Jaret Heise, Science Director

With the first of two new laboratories at the Ross Campus coming online in August, attention was paid to balancing resources within the Science Department to support both the Davis and Ross Campuses on the 4850L. In order to facilitate this communication, daily coordination meetings continue to be held near the Davis Campus but now also include research teams working at the Ross Campus.

Updates to the Ross Campus site-specific training materials continue, largely based on practices at the Davis Campus with inputs from several groups. A draft version of the package is available to support initial activities in the new CASPAR and BHUC laboratories in that area, but more work is needed.

In August, a nuclear physics program manager from the National Science Foundation (NSF) visited Sanford Lab to interact with management representatives from both the MAJORANA and CASPAR collaborations.

There were three short power outages in August due to electrical storms (Aug 5, Aug 17, and Aug 26). In each case, multiple groups were affected both on the surface and underground.

Contractors were active at the Davis Campus through August, during which time the commissioning of the MJD heat exchanger was completed. Pipe insulation continues to be replaced in key areas near the Yates Shaft.

The optical fiber cable in the Ross Shaft was damaged, but the network at the Davis Campus was not interrupted due to redundancy. A redundant network topology is planned for the Ross Campus, and additional diagnostics are being considered to help quickly identify similar issues in the future.

Regular Davis Campus evacuation drills/discussions continued through August, with a fire scenario along the primary egress route.

Large Underground Xenon - LUX

LUX continues to be in a stable data-taking mode, and has now accumulated more than 190 live days with a goal of reaching 300 live days for this run. Xenon purity dipped slightly as a result of the brief power outages that affected circulation, but remains relatively high – 662 microseconds (electron lifetime). Although purity is expected to increase, this level is more than sufficient for high-quality data. The end of data-taking continues to be projected as mid-2016.

Standard calibrations continued in August with krypton (Kr), cesium and LED data sets collected. The rubidium (83Rb) contained in the 83mKr source has a low activity (~10 microCuries in October 2012 with an 86-day half-life), and now that over twelve half-lives have elapsed there have been some initial discussions regarding a replacement. The new Kr source is expected to be lower activity (~0.1 microCuries). Brass fasteners for the metal holder used to lower sources next to the LUX detector through tubes were replaced with stainless steel ones. Tritium runs are planned for late September and the next neutron generator dataset is scheduled for early October.

Following the connection to the Davis Campus facility compressed air line in July, LUX added some additional monitoring equipment in August, including a pressure gauge; SDSTA personnel also replaced a leaking regulator. Even though the compressor needed to be reset during one of the recent power outages, the static pressure was fine and in general the system has suited LUX's needs well.

In addition to regular xenon (Xe) sampling, the sampling system was recalibrated following a hardware change.

August saw work on the muon veto system. In particular, a problem with elevated data rates on the water tank photomultiplier tubes (PMTs) was resolved by reseating some cables and terminating others. During the debugging, it was noticed that one PMT cable had been unplugged for approximately one month.

SDSTA personnel continue to fulfill their expanded responsibilities by connecting/disconnecting the liquid nitrogen tanker.

Training remains a priority, and in August LUX personnel focused on the Xe sampling, high voltage grids, and PMT systems. All action items from the April LUX safety review initiated by LBNL were evaluated in August and closed per the SURF process.

As detector operations remain stable and as SDSTA personnel increase their level of direct support for regular tasks, the number of scheduled LUX hours continues to be modest. In August, the average LUX crew consisted of five people for a combined total of 300 hours.

MAJORANA DEMONSTRATOR – MJD

Acceptance testing of the final enriched germanium detectors was completed in August, after which the five detectors were removed from the vendor-supplied cryostats for further tests. Further tests were conducted on germanium detectors involved in a previous incident with the glovebox lift, and it was determined that two detectors will need to be returned to the vendor.

Background and calibration data continue to be collected with Module 1 inside the main shield. In August, there was good progress on the inner copper shield needed to complete the main shield. Half of the plates have been completed so far and those were successfully test-fitted in the Machine Shop, while the machining for the remaining plates is expected to be completed in early September. All of the plates will need to be acid-etched as part of the final cleaning process. Based on earlier assays, a more aggressive etch is being considered. In total, the inner copper shield will be approximately 2 inches thick, made with electroformed copper from twelve mandrels, including materials from a shallow underground site at Pacific Northwest National Lab (PNNL) (outer 50%) and from the electroforming laboratory at Sanford Lab (inner 50%).

Cryostat gasket testing continues with various thicknesses of PTFE, while a larger chamber to allow parylene coating of curved geometries is expected to arrive in September for use at the Surface Laboratory. The PTFE material still needs to be assayed to determine the radiopurity.

Numerous tests and upgrades of the data acquisition system were performed in August.

There was progress on detector string assembly for Module 2, and by the end of the month a second detector string had been assembled and was undergoing tests. The goal is to have Module 2 in the shield by the end of 2015.

Progress continues with the outer neutron shield, including significant activity on the surface cutting and staging polyethylene panels. Additional discussions have been held with MJD representatives to coordinate the installation of additional fire monitoring systems at the Davis Campus, and as noted above, the new heat exchanger system that will be used to cool inner volumes of the shield is fully commissioned and operational. With the last scintillator panels for the muon veto system transported underground in July, the full system was brought online in August.

A steady stream of updates to existing MJD procedures covering a wide range of activities continue to be submitted to Sanford Lab for review by EHS and Engineering personnel.

Maintenance and operation continues for the five production baths (plus one bath to study contamination) at the electroforming laboratory near the Ross Shaft. Power outages caused some disruption of electroforming as well as electrowinning (copper removal from spent electrolyte) activities in August.

While still significant, MAJORANA returned to their standard level of effort for August with an average of more than 10 people combined for a total of 1834 hours for the month.

Compact Accelerator System for Performing Astrophysical Research – CASPAR

Following the arrival of the first shipment of accelerator equipment from Notre Dame in July, the second shipment in August coincided with the authorization for initial installation at the 4850L Ross Campus. By the end of the month, all of the accelerator equipment had been transported underground and many of the main beamline magnets had been placed in their approximate locations in the accelerator hall.

Black Hills State University Underground Campus - BHUC

With outfitting construction finished by the end of August, authorization for initial installation activities was issued for BHUC at the 4850L Ross Campus in early September. The first order of business was the installation of the vacuum-jacketed piping for the liquid nitrogen distribution system with assistance from SDSTA Engineering personnel, and initial progress indicates that the components should fit.

Low-Background Counting

Center for Ultra-Low Background Experiments in the Dakotas – CUBED: The upgraded CUBED low-background detector is expected to be returned from the vendor to Sanford Lab in the fall, hopefully in time to be the first low-background counter installed in the new BHUC facility.

Berkeley Low-Background Facility – BLBF: Production low-background counting with two detectors continues at the Davis Campus, mainly supporting LUX-ZEPLIN and MJD samples. Decommissioning plans continue to advance, taking into consideration upcoming LUX calibrations at the Davis Campus that will affect assay sensitivities.

LUX-ZEPLIN – LZ

A meeting to discuss options for providing reduced-radon air to underground laboratory spaces was held in August and included representatives from various SDSTA departments as well as key experts from the LZ collaboration. Later in the month, a kickoff meeting was held between LZ management and the two co-chairs for the initial safety readiness review that will be held October 13-14. The committee is expected to be engaged for approximately five reviews associated with key project milestones.

Other Current Research Activities

Physics: Following the completion of their decommissioning plan and procedures, authorization was issued to decommission the CUBED magnetic diffusion project (ISUP) at the Surface Laboratory. University of South Dakota (USD) personnel removed most of the experimental equipment September 2.

Members of the Deep Underground Gravity Laboratory (DUGL) plan to return to Sanford Lab in September for three weeks to perform maintenance on their seismometer array (2000L) as well as to conduct active seismic tests using weights (surface) and a hammer (2000L, 4100L, and 4850L) to generate signals.

Geology: The memorandum of understanding language for the Permeability (k) and Induced Seismicity Management for Energy Technologies (kISMET) project was finalized and hardcopies will be signed in early September. A kick-off session was held with the Rock Melt Borehole Sealing System project, including an underground trip to a set of candidate sites on the 1700L and 1850L as well as a presentation by the project PI to SDSTA personnel from various departments. Both groups need to complete further documentation associated with the science implementation process.

Biology: To assist next steps for the NASA Astrobiology group, SDSTA personnel began compiled and distributed geology information for drill holes that are accessible from maintained areas on the main science levels.

Engineering: Xilinx chip testing continues at the 4850L near the Davis Campus. The main testing computer was damaged by a power outage, and once it returns an additional array of chips (previously tested in an underground

facility in France) will be added to the testing station.



Fig. 1 MJD test-fit of half of inner copper shield.



Fig. 2 LUX training.



Fig. 3 Beamline magnets at the 4850L Ross Campus CASPAR laboratory.



Fig. 4 LN piping at the 4850L Ross Campus BHUC laboratory.

Education and Outreach Department

June Apaza, Director of Education and Outreach KC Russell, Cultural and Diversity Coordinator

Education Offerings / Programs

Cultural Activities

The Cultural Advisory Committee met on August 31. Reports were given by:

- Environmental Manager John Scheetz (EA/PA agreement status)
- Education and Outreach (E&O) Director June Apaza (E&O activities and reorganization)
- Cultural and Diversity Coordinator KC Russell (cultural activities)
- Human Resources Manager Eileen Brosnahan (hiring)
- SDSTA Executive Director Mike Headley (leadership, funding and LBNF/DUNE status)
- Communications Director Constance Walter (strategic planning process)

In addition, the committee reviewed progress towards fulfilling the recommendations of the last annual review in February 2015, discussed changes in the charter to meet the responsibilities of the LBNF/DUNE Programmatic Agreement, and toured the new Sanford Lab Homestake Visitor Center with Connie. Members of the Cultural Advisory Committee in attendance were George Campbell (Chair), Lowell Amiotte, Kay Jorgenson, Carter Kerk, Urla Marcus and Rylan Sprague.

The Black Hills State University (BHSU) Bridge program provides a week of orientation for American Indian students transitioning into college at BHSU. Sanford Science Education Center co-Director Ben Sayler and Connie gave an introduction to Sanford Lab and an overview of student opportunities related to Sanford Lab. The next day 19 of the students toured the Yates Hoistroom with E&O Deputy Director Peggy Norris and then spent time at the Visitor Center.

K-12 Educators and Students

The E&O Department is pleased to announce expanded offerings for K-12 schools.

- Curriculum Units The expanded offerings include newly developed curriculum units that are aligned with
 the new South Dakota Science Standards and that feature the science of Sanford Lab. Two units have been
 developed for each of three grade bands, and each unit encompasses 7-10 days of classroom instruction. In
 2015-2016, Sanford Lab E&O staff will directly support teachers across the state whom wish to pilot one of
 the units.
- School Visits The offerings also include visits by Sanford Lab staff to schools to build awareness of Sanford Lab and its E&O program. This component consists of 20 to 40-minute presentations in an assembly or classroom format. These will be short, engaging experiences designed to stimulate interest in STEM fields and the exciting science happening at Sanford Lab. Topics will change annually.
- **Field Trips** A limited number of days are available each fall and spring for schools that are able to travel to Sanford Lab. Program offerings are grade-band appropriate and aligned with SD science standards. A new website is now open for schools who wish to apply for a fall field trip.

The E&O staff is currently recruiting teachers and classrooms to participate in the educational opportunities that have been developed. An effort is being made to reach out specifically to schools and districts serving large numbers of American Indian students and other under-served populations. In addition, we are approaching tribal colleges about opportunities that exist for them related to the new curriculum materials.

A synopsis of the new offerings is given in Appendix A.

E&O Deputy Director Peggy Norris is Principal Investigator (PI) and June Apaza is co-PI for a NASA South Dakota Space Grant Consortium Program Innovation Grant for \$20,148 to provide teacher stipends, travel funds, material kits and evaluation of 2015-2016 school year pilots for the new curriculum units.

Undergraduate

A report on the 2015 Davis-Bahcall Scholars program, including survey results of 2015 participants and a tracking update on past participants, is given in Appendix B.

Peggy is co-PI for a recently submitted proposal to the National Science Foundation to establish a Research Experience for Undergraduates (REU) program on underground physics at South Dakota School of Mines and Technology (SDSM&T). As described in the proposal, Sanford Lab Education and Outreach staff will partner with SDSM&T to provide an educational and enrichment program for REU students together with Sanford Lab's interns, with workshops held at the SDSM&T campus as well as underground activities at Sanford Laboratory. Sanford Lab commitments for the proposed program will be coordinated by the E&O Department. The REU proposal also includes training for mentors.

Table 1. Estimated Audience Served – August 2015

Group	Students			Ec	lucator	:S	Con	mmuni	ity		
	K-5	8-9	9 -12	Undergrad	Graduate	K-12 Teachers	Univ. Faculty	Informal	Parents	Sanford Lab Staff	General Public
			ON-S	SITE							
BHSU Bridge Program-Hoist Room tour				19							
Subtotal	0	0	0	19	0	0	0	0	0	0	0
			OFF-	SITE							
BHSU Bridge Program –BHSU talk*				16			1				
Road Scholars (x4)*											160
Davis Memorial Dedication**										32	33
Subtotal	0	0	0	16	0	0	1	0	0	0	160
	VIDEOCONFERENCE										
Subtotal	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	35	0	0	1	0	0	32	193

Grand Total: 261 students, educators and members of the general public, of which 35 were students or teachers engaged in programs specifically designed to interest or support more American Indian students in STEM.

^{*} joint Sanford Lab Communications/E&O Departments activity

^{**} Communications Department activity

APPENDIX A. E&O Offerings 2015-2016

Sanford Lab School Visits 2015

Elementary (Grades K-5)

A Day in the Life of a Scientist: Working a mile underground is unique. How do the scientists who work at Sanford Lab every day get underground? What do they wear and what do they do? This engaging presentation will have students playing scientist in an underground research laboratory.

Nerds Searching for WIMPS: Students are introduced to dark matter - a mystery particle that is much more abundant than anything in the universe, but has not (yet) been detected – and to the experiment, LUX, that is searching for it at Sanford Lab. Students will participate in a tag game that simulates the components and interactions within the LUX detector. Recommended for grades 3-5.

Middle School (Grades 6-8)

Discover Exciting Career Possibilities: Students will learn about the current work at Sanford Lab and discover potential careers in STEM fields. Operating a research facility nearly a mile underground requires personnel with a wide range of skills. This is a great opportunity for students to learn about the scientists, engineers, and other professionals that build and design the spaces, develop the tools, collect the data, support the work, and research the questions that are behind the cutting-edge experiments.

High School (Grades 9-12)

Neutrinos – **Matter or Not?**: Students will learn about an experiment that will transform our understanding of one of the universe's most abundant but most mysterious particles, neutrinos. The Deep Underground Neutrino Experiment at Sanford Lab will study neutrinos as they oscillate their way through Earth to South Dakota from an accelerator 800 miles away at Fermilab outside of Chicago. Construction will start in a few years, and experiments in this new facility at Sanford Lab will last decades.

Curriculum Units

Grade Band	Title	Synopsis				
	May the Force Be	Students explore magnets and magnetic forces, and				
	With You	rotational and linear motion induced by magnets.				
3-5		Students gather and use indirect evidence to reason about				
	Exploring the Unseen	things too small to see, too remote to reach and otherwise				
		difficult to detect.				
		Students explore wave properties, how energy is transferred				
	Monster Waves	through waves and how waves moving through media give				
6-8		Students explore magnets and magnetic forces, and rotational and linear motion induced by magnets. Students gather and use indirect evidence to reason about things too small to see, too remote to reach and otherwise difficult to detect. Students explore wave properties, how energy is transferred through waves and how waves moving through media give information that can be used for a variety of purposes. In this unit, students explore matter and interactions through a variety of activities focusing on the very big (galaxies) and the very small (neutrinos and other subatomic particles). This unit, designed for high school biology classes, highlights a NASA-funded research project at Sanford Lab called 'Life Underground'.				
0-8	What's the 'Matter'	In this unit, students explore matter and interactions through				
	with the Big Bang	a variety of activities focusing on the very big (galaxies) and				
	with the big bang	the very small (neutrinos and other subatomic particles).				
		This unit, designed for high school biology classes,				
	Perplexing Puddles	highlights a NASA-funded research project at Sanford Lab				
9-12		called 'Life Underground'.				
9-12	'We are Made of Star-	This unit, designed for high school chemistry classes, uses				
	stuff'	nucleosynthesis in the cosmos to introduce the structure of				
	Stuff	matter, the periodic table and nuclear processes.				

APPENDIX B. Davis-Bahcall Scholars Report

2015 Program Overview

The Davis-Bahcall Scholars Program provides rising college freshmen and sophomores from across South Dakota with rich learning experiences at the Sanford Underground Research Facility and around the world. The program has been sponsored by 3M Company in partnership with the Governor's office, the State of South Dakota, Sanford Lab, and Black Hills State University for the past seven years.

The 2015 Davis-Bahcall Scholars Program was an excellent success. Nine scholars participated over five weeks – from June 7 through July 12. The program began with two weeks at Sanford Lab, followed by a drive to Chicago, a week in Italy, and finally back to Sanford Lab. Highlights from South Dakota to Chicago included visits to a 3M facility in Aberdeen, Soundan Underground Lab in Minnesota, physics facilities at University of Wisconsin, and tours of both Fermilab and Argonne National Lab. In Italy, the group toured a laboratory and cultural attractions in Rome, Gran Sasso National Laboratory in L'Aquila, and an observatory in Teramo. When students returned from Italy, they facilitated education activites as part of Neutrino Day, and on the following day, as part of a farewell luncheon, they each made a presentation to an audience of program learders, Sanford Lab staff, and their families.

With help from Sanford Lab's Education and Outreach Team, the Sanford Science Education Center, and a newly established Davis-Bahcall Advisory Committee, this year's program was coordinated by Dr. Brianna Mount, Assistant Professor of Physics Research at Black Hills State University. Direct costs of the program totaled \$57,500. Funding sources included \$25,000 from 3M Company, \$14,500 from the South Dakota Science and Technology Authority, \$10,000 from BHSU, and \$8,000 from South Dakota Space Grant Consortium. Hundreds of hours of in-kind support were also invested by Sanford Lab's E&O Team, additional Sanford Lab staff, the Sanford Science Education Center, BHSU, Augustana University, and faculty and staff at all of the participating institutions and facilities.

A summary of participant feedback for 2015 is attached. These data provide strong evidence that the program is well designed and that it was well implemented, impactful, and greatly appreciated by the participants. Longitudinal data tables summarizing participant demographics from 2008 through 2015 are also attached, together with a table that tracks academic paths and career trajectories of the program's 97 alumni.



Davis-Bahcall Scholars Program 2015 Participant Feedback September 4, 2015

At the conclusion of the 2015 Davis-Bahcall Scholars Program, participants were instructed that within a few weeks, after having had some time to reflect on the full experience, they would be asked to provide anonymous feedback about the program. The program ended on July 12, and an online survey was activated on July 27. By August 11, all nine of the scholars had completed the survey.

In an effort to maximize candor, the survey was administered by the director of the Sanford Science Education Center rather than by the program coordinator. The students had met the director of the Center, but only briefly, whereas they had spent a full five weeks together with the program coordinator.

The survey consisted of twelve questions. The first two questions were free-response. The next eight questions asked for a rating on a 5-point scale and allowed for comments. The final two questions were free-response. All respondents appeared to have given the survey considerable thought and to complete it thoroughly. The shortest response time was 23 minutes. The majority of response times fell between 23 and 45 minutes. A few longer response times suggest that those surveys were completed over multiple sittings.

The feedback that follows is quite affirming. Ratings were consistently high and comments positive. There are constructive suggestions about refinements for the future, but overall, this feedback provides strong evidence that the program is well designed as it stands, was very well implemented, and was much appreciated by the participants.

1. What were the 5 most impactful activities and/or program elements over the 5 weeks? Please be specific and tell us why.

Responses to this question were uniformly glowing. As one student wrote, "Where do I start? It's fairly difficult to choose as there was never a day / activity that wasn't interesting."

The following components appeared in most, if not every response:

- Time spent at Sanford Underground Research Facility
 - In-depth lectures about physics
 - Learning about Sanford Lab experiments
 - o Going underground to see the experiments and to count cosmic rays
- Travel to other science and engineering facilities in the US
 - o Fermilab, Argonne, 3M, University of Wisconsin, and Soudan
- Going to Italy and touring Gran Sasso, Frascati, and Teramo Astronomical Observatory
- Physics and engineering panels. Students appreciated the academic and career advice.
 - o Engineering panels at 3M and Sanford Lab, panel of physicists in Lead

Other items of note included:

- Program personnel
- Hands-on activities, as something different from lectures
- Outreach activities, working with general public at Neutrino Day and in Spearfish
- Tourist activities, especially in Rome, and recreational activities like canoeing and hiking

One student wrote specifically with regard to visiting Italy, "Being able to experience another culture as well as being able to tour the national laboratories there created a perfect balance of education and fun!" Another wrote, "Maybe I'm just an inherently boring person, but I think it's fair to say these five weeks have been the best 5 weeks of my entire life."

2. What 5 activities and/or program elements might you suggest we consider discarding or replacing. Please be specific and tell us why.

Responses to this question were much shorter in general than to the preceding one, but the majority of scholars did make a concerted effort to respond thoroughly with constructive criticism.

One particularly useful comment, which showed up a few times, was about repetition from one tour or presentation to another. The tour guides and other presenters were often unaware of what the group had already learned about. Some amount of repetition is certainly to be expected and even beneficial, but it's worth taking this comment to heart and ensure presenters have a good understanding of what the students have already experienced and heard about. Also, presenters shouldn't be shy about opening with some amount of conversation with the group to help gauge the group's background.

Most of the other comments were singletons -- and often an activity that one participant mentioned as replaceable or discardable was one that appeared as a favorite for others on the preceding question.

Building robots falls into this category to some degree - a highlight for some and replaceable for others. More than replacing it, however, the two scholars who mentioned it here suggested modification: Shorten and/or ensure there's enough to be learned to justify the amount of time.

The panels fell into this category as well. They were a highlight for many, but others wished for more structure to the panel discussions and some noted some amount of intimidation about speaking up and asking questions in these venues.

One other piece of important feedback relates to an inherent tension associated with the age and maturity level of the students. The program had a "rule of 3," meaning that scholars who wanted to do something away from the larger group when the group was traveling needed to do so with at least two companions. For safety and tracking purposes, this makes a lot of sense, but some found it overly restrictive. Even if the rules remain exactly the same in the future, it is worth being aware of this tension.

3. Balance of Activities - All

Please think about the proportion of time spent doing various types of activities - educational activities, travel, social, recreation, free-time. Was there too much of something? Too little? Overall, the balance of activities was...

Poor Fair Good Very Good Excellent

Quite positive comments overall. No clear guidance one direction or another. Some wanted a little more of something, whereas others wanted a little less of the same thing. As one student summed it up, "I think the balance was pretty well struck."

There was a great balance of everything. The travel was much more bearable than I thought it would be. It was really nice the few times that we got to stay in the hotels for more than one night since we didn't have to pack everything up right away.

4. Balance of Activities - Educational

Specifically with respect to the educational activities, please think about the proportion of time spent doing various types - listening to lectures, participating in seminars, taking tours, traveling, doing activities, participating at Neutrino Day, etc. Overall, the balance of the educational activities was...

Poor Fair Good Very Good Excellent

Some wanted more lectures, some accepted the importance of many lectures, and some wanted more hands-on, active learning.

Talks were great.

A few too many lectures.

I wish there had been more in-depth lectures, but I thought that overall, everything was very balanced.

There were a lot of lectures with a lot of information early in the program, but I still found them very interesting and very necessary.

I would have enjoyed more hands on activities, so more things like: Counting cosmic rays/radiation, Neutrino Day activities, building robots.

5. Level of Difficulty

In general, were lectures and activities pitched at a good cognitive level for you?

Pretty easy, Pretty hard,
Too Easy but okay Just right but okay Too hard

Five scholars rated the level of difficult as 'just right', three rated it as 'pretty hard, but okay', and one responded 'quite mixed' (not shown). Erring a bit on the hard side seems appropriate for this audience. The following quotes capture the range of comments.

Since I didn't have a background in particle physics the first few lectures where hard to understand. By the end of the program it was much easier to understand.

The lectures fluctuated in difficulty. Some speakers would baby you through something you already knew, some would be just right, and some went very deep very fast.

The topics were difficult, yes, but they were a good kind of difficult. Not 'I don't get this, this is frustrating' difficult, more along the lines of 'This is challenging, I like it,' if that makes sense.

6. Level of Inter				
	am as a whole, how e			of content -
different types of	science, engineering	, and laboratory op	perations?	
Very	Moderately		Moderately	Very
boring	boring	Neutral	interesting	interesting
	focused on the progra			
disciplines. Com	ments indicated the pr	rogram tilted pretty	heavily toward physi	cs, but in general
that seemed to b	e acceptable.			
	used, I loved it. Other			r fields. Don't
change the progr	ram / maybe just adve	ertise a bit more sp	ecifically.	
14/		1 11 1:00		
	everything. It would've			
' '	to us over the course	, ,	ven it some or most o	t tnem alan't
airectly apply to o	our choice of career fi	ета.		
I thought thorough	vaa a wida ranga af aa	entant that atill fall	under the umbrelle of	rocoarah/nhvaiaa
Tillought there w	as a wide range of co	inieni inal siin ien i	unuer ine umbrena or	research/priysics.
Although Lam no	nt going specifically for	r nhysics the nroa	ram was still interesti	na for me
Aithoughtrainine	n going specifically for	priysics, the prog	rann was sun interesti	ng for the.
Note that one rat	ing of this question as	s 'very horing' was	discarded because th	ne associated
	inconsistent with the r		alocal and boodaco ti	io accordatoa
		ating.		
7. Level of Enjo	yment / Fun			
Highly	Moderately		Moderately	Highly
unpleasant	unpleasant	Neutral	enjoyable	enjoyable
1	·		Ì	
Positive commer	nts across the board, "	The education as	well as the free time v	was highly
enjoyable, and it	was a great group of	people!"		
8. Duration of P	rogram			
Too short	A bit too short	Just right	A bit too long	Too long
		•		
	/ complete consensus			
	it allowed us to go thr	ough with all of ou	r plans without feeling	g rushed or drawn-
out."				
	ions / Organization /	•		
	ludes things like food			
Poor	Fair	Good	Very Good	Excellent
	ere and there, but ove			
	ed schedules along the			
	were fancier than he			
uncomfortable. M	lost felt the accommo	dations were just r	right, if not outstanding	g.

10. Overall Quality of the Program

Was this a good use of your time? Would you recommend it to a friend? Thinking across all aspects of the program - educational, social, and organizational - how would you rate the 5 weeks...

Poor	Fair	Good	Very Good	Excellent
		1	ĺ	

All of the comments about overall quality were very positive.

I would definitely recommend this program to a friend - I gained many valuable insights, both about physics and about my future career plans. The experience to visit the likes of Fermilab and Gran Sasso was an amazing opportunity, and I am glad to have been able to be a part of it.

This program was very helpful. It has helped me more than I imagined. I think it gave me more confidence that I picked the right major.

Certainly the most unique and interesting program I've ever participated in. I will certainly recommend this to my high school teachers.

Questions 11 and 12: The final two questions asked about the timing of the program and about its impact on participants' internship opportunities. With regard to the timing of the program, organizers were curious if students might have preferred for the program to happen earlier in the summer or later in the summer (actual dates were June 7 - July 12). Two students indicated that earlier would have been preferable in order to have had a larger block of time later in the summer to do something else, but the other seven felt the timing of the program was good, and many used the word "perfect." Different academic calendars of different high schools and colleges make moving the program closer to the beginning or end of the summer tricky.

With regard to internships, all of the Davis-Bahcall Scholars were offered the opportunity to pair a short internship with the 5-week program. Four took advantage of that offer, and five did not. Those who were provided with an internship in conjunction with the program were appreciative of that opportunity. Most of the others indicated they were interested in an internship sometime later in their academic career, but were perfectly happy not to have had one in 2015. As one student said, "I had a choice between an internship and this program. I immediately chose [this program] because of the opportunity. Yes it replaced an internship, but at this age [incoming college freshmen and sophomores], it makes very little difference... If the program were for college juniors, it would be an issue."

Davis-Bahcall Scholars

Program Attributes, Demographics, and Student Tracking

Table A. Components of Program by Year

S.	dents		EUROF	PΕ	DC	DE Nati Labs	onal		U.S.	Univer	sities		F	acilitie	S
YEAR # of Students	# of Stu	CERN	Gran Sasso	Frascati	Brookhaven	Fermilab	Argonne	Princeton	Chicago	Notre Dame	Wisconsin	Stony Brook	Sanford Lab	Soudan	NOvA
2008 (pilot)	2		✓					√							
2009 (DB)	10	✓	✓	✓				✓					✓		
2009 (SS)*	17				✓	✓	✓					✓	✓		
2010 (DB)	10	✓	✓	✓				✓					✓		
2010 (SS)	10					✓	✓						✓		
2011	10					\checkmark	\checkmark	√			\checkmark		✓	\checkmark	√
2012	10		✓	\checkmark		✓	\checkmark		✓	✓			√		
2013	9		✓	✓		✓	✓			✓			√		
2014	10		✓	✓		✓	✓				✓		√	✓	√
2015	9		✓	✓		✓	✓				✓		√	√	√
Totals	97	20	60	58	8	67	67	32	10	20	29	8	95	29	29

^{* 8} students went to Brookhaven National Lab + State University of New York at Stony Brook; 9 students went to Fermilab and Argonne.

Table B. Gender Distribution of Students

Year	# Students	Fen	nale	M ale		
		#	%	#	%	
2008	2	1	50	1	50	
2009	27	8	30	19	70	
2010	20	8	40	12	60	
2011	10	5	50	5	50	
2012	10	4	40	6	60	
2013	9	4	44	5	56	
2014	10	6	60	4	40	
2015	9	3	33	6	67	
Total	97	39	40	58	60	

Table C. Ethnicity of Students

Year	# Students	Cauc	asian		rican lian		ican erican	Hisp	oanic		ian rican
		#	%	#	%	#	%	#	%	#	%
2008	2	1	50	1	50	0	0	0	0	0	0
2009	27	25	93	1	3.5	0	0	0	0	1	3.5
2010	20	19	95	0	0	1	5	0	0	0	0
2011	10	9	90	0	0	0	0	0	0	1	10
2012	10	8	80	1	10	0	0	1	10	0	0
2013	9	8	89	0	0	0	0	0	0	1	11
2014	10	8	80	0	0	0	0	1	10	1	10
2015	9	8	89	1	11	0	0	0	0	0	0
Total	97	86	89	4	4.0	1	1.0	2	2.0	4	4.0

Table D: Tracking of Program Alumni - College Graduates

Student	Program Year	College	Grad Year	Major	Career Path	Location
1	2008	SDSU	2013	ElectricalEng/ Physics	Other	Benedictine Order, Norfolk, NE
2	2008					
3	2009	BHSU	2012		Nursing School	USD
4	2009	Montana St	2013	Chem/Bio Engineering	Workforce	Nalco, Bozeman, MT
5	2009	Univ of Penn- sylvania	2013	Architecture	Workforce	Joeb Moore&Partners, PA
6	2009	SDSMT	2013	Industrial Eng/Manage ment	Workforce	Hormel Foods, Rapid City, SD
7	2009	SDSU	2013	MechEng/Sp anish	Workforce	Walt Disney World, Orlando, FL
8	2009	Univ of Iowa	2013	Biochem/Mic roBio	Graduate School (MD/PhD)	Univ of Washington, Seattle, WA
9	2009	SDSMT	2012	Chemical Engineering	Workforce	Dow Chemical, Midland, MI
10	2009	Univ of Minnesota	2012	Chemistry		
11	2009	SDSU	2013	Math/Physics	Graduate School (MS)	Department of Mathematics, SDSU
12	2009	Montana St	2013	Physics	Graduate School (PhD)	Rochester Inst of Technology, Rochester, NY
13	2009	SDSMT	2013	Civil Engineering	Workforce	State of South Dakota, Pierre, SD
14	2009	SDSU				
15	2009	Cornell Univ (NY)	2013	Environment al Research Associate	Workforce (working on masters)	Diversified Landscapes, Orange County, CA
16	2009	Univ Nebraska	2013	Software Engineering	Workforce	MarketSphere, Lincoln, NE

Table D: Tracking of Program Alumni - College Graduates (continued)

Student	Program Year	College	Grad Year	Major	Career Path	Location
17	2009	Carleton College (MN)	2013	Environment Workforce		Dana Farber Cancer Inst, Boston, MA
18	2009	Hope College (MI)	2013	Biochem/Mol Graduate School ecular Bio (PhD)		Molecular Biology Dept, Univ of Michigan
19	2009	Univ Sioux Falls	2013	Biology Graduate School (PhD)		Cell/Molecular Biology, Colorado State
20	2009	SDSU	2013	Biology/Span ish		
21	2009	Padova, IT	2013	Civil Engineering		
22	2009	Augustana	2012	Phys/Math/C hem	· ' '	
23	2009	SDSU	2013	Mechanical Engineering Workforce		Rochester, MN
24	2009	USD	2012	Chemistry Professional School (MD)		USD
25	2009	SDSMT	2012	Electrical Workforce		QEP Resources, WY
26	2009	UNLV (NV)	2013	Film	Workforce	Shoreline Entertainment, NV
27	2009	Creighton (NE)	2013	Math/Physics	Graduate School (PhD)	Physics Department, Creighton Univ, NE
28	2009	Augustana	2012	Biology/Engi neering	Other	Peace Corps, Africa
29	2009	SDSU	2012	Biology	Nursing School/Workforce	St Luke's Hospital, SD
30	2010	Univ Nebraska	2014	Computer Workforce		Microsoft, Redmond, WA
31	2010	Montana St	2013	Physics Graduate School (PhD)		Dept of Physics,
32	2010	St Thomas (MN)	2014	Mechanical Engineering		
33	2010	BHSU	2013	Biology&Che Science Education		Teaching, SD

Table D: Tracking of Program Alumni - College Graduates (continued)

Student	Program Year	College	Grad Year	Major Career Path		Location
34	2010	Washington Univ (MO)	2014	Political Science	Professional School (MBA)	Washington Univ., St Louis, MO
35	2010	SDSU	2014	Electrical Engineering		
36	2010	USD	2013	Physics/Math	Graduate School (PhD)	Dept of Mathematics, USD
37	2010	SDSMT	2014	Mechanical Workforce Engineering		Parker-Hanlin, McCook, NE
38	2010	Concordia College (MN)	2014	Math/Physics	Graduate School (PhD)	Univ of Notre Dame, IN
39	2010	Colorado School of Mines	2014	Environment al Engineering	Workforce	Alan Plummer Associates, Ft Worth, TX
40	2010	SDSMT	2013	Industrial Eng/Eng Management	Workforce	Peabody Energy, Gillette, WY
41	2010	SDSMT	2015	Chemical Engineering	Graduate School (PhD)	Dept of Materials Sci, Purdue University, IN
42	2010	SDSU	2014	Civil Engineering	Graduate School (MS)	Dept of Civil Eng, SDSU
43	2010	Mt Marty College	2012	Biology		
44	2010	SDSU	2014	Civil Engineering	Graduate School	Dept of Civil Engineering Colorado School of Mines, CO
45	2010	Purdue Univ (IN)		Mech Eng/Physics		
46	2010	St. John's (MN)	2014	Biology/Span ish		
47	2010	SDSMT	2014	Chemical Workforce Engineering		Dow AgroSciences,
48	2010	Augustana	2013	Physics Graduate School (PhD)		Dept of Physics, Univ of Colorado, CO
49	2010	SDSU	2013	Music	Music	

Table D: Tracking of Program Alumni - College Graduates (continued)

Student	Program Year	College	Grad Year	Major Career Path		Location
52	2011	SDSMT	2015	Chemical Engineering	Workforce	Davisco Foods, Jerome, ID
53	2011	Augustana	2014	Biology		
54	2011	Iowa State	2015	Chemical Engineering		
56	2011	Drake (IA)	2015	Physics		
57	2011	Augustana	2015	Biochemistry	Professional School (MD)	USD
59	2011	Univ of Minnesota	2015	Aerospace Engineering		
67	2012	Northern State	2015	Biology	Intern	USDA Biotechnology, Orlando, FL
68	2012	SDSMT	2015	Computer Science	Workforce	Software Engineer Innovative Systems

Table E: Tracking of Program Alumni - Current Undergraduates

Student	Progra m Year	College	Anticip ated Gradua tion	Major	Recent Internships
50	2011	Drake (IA)	2016		
51	2011	SDSU	2016	Civil Eng / Spanish	Indian Health Service - 2013 SDSU – 2014 HR Green, Inc - 2015
55	2011	Univ of Illinois	2016	Computer Science	Argonne – 2013 Intel - 2014
58	2011	SDSMT	2016	Chemical Engineering	POET - 2014
60	2012	SDSMT	2016	Biological & Chemical Engineering	NASA Johnson Space Center - 2013
61	2012	Wartburg (IA)	2016	Biology/Spanish	
62	2012	UC Berkeley (CA)	2016	Physics	Sanford Lab – 2013 UC Berkeley - 2014
63	2012	Univ. of Oklahoma	2016	Engineering Physics	OU - 2013
64	2012	Augustana	2016	Chemistry/Physics	Sanford Research - 2015
65	2012	Univ of Colorado	2016	Aerospace Engineering	Colorado State LASP - 2014
66	2012	SDSU	2016		
69	2012	SDSU	2016		OSSPEEC (pre- engineering) - 2013
70	2013	SDSMT	2017	Chemistry	SDSU - 2014
71	2013	SDSMT	2017	Computer Engineering	Innovative Systems - 2013 SDSMT - 2014 Omnitech, Inc- 2015
72	2013	Univ of Minnesota	2017		3M Aberdeen - 2013
73	2013	SDSMT	2016	Mathematics	Sanford Lab - 2014

Table E: Tracking of Program Alumni - Current Undergraduates (continued)

Student	Progra m Year	College	Anticip ated Gradua tion	Major	Recent Internships
74	2013	Montana St	2017	Mechanical Engineering	
75	2013	Augustana	2017	Physics/Math	Augustana -2013, 2014 Iowa State - 2015
76	2013	SDSU	2017	Mechanical Engineering	
77	2013	USD	2016	Physics	Sencore - 2013 USD – 2014 USD - 2015
78	2013	SDSMT	2017	Electrical Engineering	Sanford Lab – 2013, 2014
79	2014	Iowa State	2018	Mechanical Engineering	
80	2014	BHSU	2018	Env&Physical Science	
81	2014	Univ of Rochester (NY)	2018	Physics	
82	2014	SDSMT	2018	Biological Engineering	Nanofiber Tech - 2014
83	2014	Univ of Chicago (IL)	2018		
84	2014	SDSU	2018	Civil/Env Engineering	Vantage Point Systems - 2014
85	2014	Augustana	2018	Physics	Augustana – 2014, 2015
86	2014	SDSMT	2017	Physics	SDSMT - 2014 Fermilab - 2015
87	2014	Yale Univ (CT)	2018	Chemistry	SD BioTech – 2014 Yale Univ - 2015
88	2014	BHSU	2017	Env&Physical Science	USD Cubed - 2014

Table E: Tracking of Program Alumni - Current Undergraduates (continued)

Student	Progra m Year	College	Anticip ated Gradua tion	Major	Recent Internships
89	2015	SDSMT	2018	Chemical Engineering	CalxAqua, LLC - 2015
90	2015	SDSMT	2018	Geological Engineering	
91	2015	SDSMT	2019	Computer Science	
92	2015	SDSMT	2019	Physics, Engineering	Adams Thermal - 2015
93	2015	SDSMT	2019	Physics	3M - 2015
94	2015	SDSU	2018	Mechanical Engineering	
95	2015	Northwester n (IL)	2019		
96	2015	Stanford (CA)	2019		
97	2015	Univ of Michigan	2019		Alumend - 2015

Communications Department Constance Walter, Communications Director

Communications

Communications Director Constance Walter and Multimedia Specialist Matt Kapust are participating in the Deep Underground Neutrino Experiment (DUNE) Outreach and Communications group, which meets monthly.

The dedication of the Raymond Davis Jr. Memorial took place at the Visitor Center on August 26. More than 70 people attended the event. Speakers included Dr. John Wilkerson, MAJORANA; Dr. David Kieda, University of Utah; Mr. Dale Lamphere, South Dakota artist laureate; and Mr. Roger Davis, son of Dr. Ray Davis. SDSTA Executive Director Mr. Mike Headley emceed the event.

Connie attended the Cultural Advisory Committee meeting on August 31.

Connie and Matt are working with Black Hills State University (BHSU) on the new Jonas Science Building addition. Contributions include helping to develope a plaque honoring T. Denny Sanford, creating designs for Sanford Lab flags, choosing images for the walls, and submitting videos for the kiosk.

Matt is continuing to work with the Visitor Center on advertising placements.

The licensing agreement with the Visitor Center was finalized.

Community

Connie and E&O Education Specialist Bree Oatman distributed flyers on neutrinos, dark matter, and the underground laboratory and offered kids activities at the Lead Live event.

Media/Site Visits

National Public Radio's Radiolab reporters were on site July 14-15. The podcast can be found here: http://www.radiolab.org/story/elements/.

Connie served as a guide during the LBNF/DUNE logistics tour.

Connie accompanied Roger Davis and his wife, Linda, on an underground and surface tour of Sanford Lab prior to the dedication ceremony.

Presentations

Connie gave three presentations to Roads Scholar groups—nearly 150 people. These groups include people from all over the United States.

Graphics, video and website

The Communications team continues to look at website redesign options and plans to update the site when the next version of our Content Management System is available.

Communications Specialist Adam Gomez is working on a time-lapse video for MJD.

Adam and Matt created the program for the Raymond Davis Jr. Memorial dedication.

Adam designed a flyer for the upcoming Chang Kee Jung presentation at Black Hills State University.

Matt and Adam took photographs and video of Dale Lamphere working on the Ray Davis tribute sculpture; Adam documented the installation.

Matt and Adam are working with the Environment, Health, and Safety Department to create a video with safety messages.

Photography highlights in August

- August 14: CASPAR Begins Moving In
- August 26: Dedication of the Raymond Davis Jr. Memorial (photos not unavailable until September 11 when Matt returns from his vacation)

To view albums in the Sanford Lab Photo Gallery go to: http://pics.sanfordlab.org/f216003594

Miscellaneous

Matt continues to maintain cameras and manage files to create time-lapse videos of BHUC and CASPAR.

The Communications Department continues to develop stories for Deep Thoughts; update the website; perform general web maintenance; and provide photographs and information to the media, science collaborations and educational institutions, and other laboratory departments.

Upcoming

- Sep 17-18: Guest speaker Chang Kee Jung
- Sep 22: Community Presentation at Whitewood Library
- Sep 26: South Dakota Festival of Books in Deadwood; Speaking at Lions Club Regional Conference
- Oct 2: Governor's Policy Office Staff Underground Tour
- Oct 14-15: Connie to attend the Interactions Collaboration of particle physics communicators meeting at Brookhaven National Laboratory
- Nov 1-3: Presentation at the Indian Summit in Pierre
- Planning for new informational videos

News coverage

- Sep 3: Scientists below the surface by Lauren Biron, Symmetry Magazine
- Aug 31: Fermilab planning to study neutrinos to understand more about universe by Eric Schelkopf, Kane County Chronicle
- Aug 27: Lead dedicates sculpture to scientist Dr. Ray Davis by Staff Reports, KOTA Territory News
- Aug 27: Davis Tribute Sculpture dedicated by Jaci Conrad Pearson, Black Hills Pioneer
- Aug 26: Sculpture dedicated to Dr. Ray Davis at the Sanford Lab Homestake Visitor Center by Eliana Sheriff, KEVN Black Hills Fox
- Aug 22: Davis tribute sculpture dedication Wednesday by Staff Reports, Black Hills Pioneer
- Aug 21: If we want to detect dark matter we might need a different approach by TANN, University of Southern Denmark
- Aug 21: Mines students complete summer internships by Staff, KOTA Territory News
- Aug 20: New theory—If we want to detect dark matter we might need a different approach by Staff Writers, Phys.org
- Aug 19: Black Hills State University ready for new school year by Eliana Sheriff, KEVN Black Hills Fox
- Aug 14: Underground geology with Tom Campbell by Cara Hetland, South Dakota Public Broadcasting
- Aug 11: Kingsland officials, teachers explore underground research lab by Gretchen Mensink Lovejoy,
 Spring Valley Tribune
- Aug 11: A Tale of Two Neutrino Labs by Sen. Randy Hultgren, Medium
- Aug 7: Mines' research funded by regents' grants could boost economy by Emily Niebrugge, Rapid City Journal
- Aug 5: Public University Research Grants Stimulate Economic Development by staff reporters

Communications Department Photo Appendix









Top left: CASPAR begins moving their experiment to its new home.

Center left: Facilities Technician Oren Loken assists the CASPAR researchers to suspend equipment for an accelerator.

Center right top: This is an aerial view of the Davis Tribute Sculpture while being fabricated.

Center right center: Dale Lamphere (at right) measures a support piece of the sculpture. Lamphere is the artist commissioned to build the sculpture.

Center right bottom: Executive Director Mike Headley answers questions during a workshop for LBNE/DUNE.



Business Services Department Sharon Hemmingson, Business Services Manager

Contracts and Procurement

Sanford Underground Research Facility Operations (LBNL): SDSTA received Modification No. 32 to the Sanford Underground Research Facility Support subcontract, adding \$469,000 in supplemental funding for FY2015. The Lawrence Berkeley National Laboratory (LBNL) and Department of Energy (DOE) are currently reviewing the FY2016 continuation proposal.

Large Underground Xenon (LUX): The FY2016 continuation proposal was submitted to LBNL.

Long Baseline Neutrino Facility (LBNF): SDSTA received purchase orders from Fermilab to authorize Gilt Edge Study changes, Arup's participation in upcoming Risk Workshops, and changes to advance preliminary excavation design. SDSTA received four new Requests for Proposal to add tasks to the Excavation Preliminary Design and Building and Infrastructure purchase orders.

Requests For Proposal (RFP) and Contracts Status Report – AUGUST 2015								
Contractor / Vendor	Type	Project	Amount					
Ruff Inc. #2015-06	CO#1	Add funds - Data retrieval from RS6000	\$650 (DOE)					
CDM Smith #2015-04	CO#1	Extend contract through 9/30/2015	n/a (DOE)					
Butler Cat #2015-17	3 year Contract	Annual generator inspections and on-call services (Surface & UG) – Year 1	\$14,810 (DOE)					
D&W Crane #2014-14	CO#1	Year 2 renewal (10/1/15-9/30/16), new rates	n/a (DOE)					
North Central Supply, Inc. #2015-18	3 year Contract	On-call service for doors, locks, gates & controls on surface & in UG locations – Year 1	\$5,000 (DOE)					
James L. Whitlock #2014-20	CO#1Rev	Year 2 renewal (10/1/15-9/30/16), add funding	\$6,000 (DOE)					
CVD Construction #2014-10 (General Services)	CO#4	Year 2 renewal (10/1/15-9/30/16) with revised rate sheet; increase funding	\$25,000 (DOE)					
CDM Smith #2015-04	CO#2	Increase scope, costs	\$55,089 (DOE)					
Galyn Rippentrop #2013-06	CO#5	Extend to 9/30/16, add funding	\$7,500 (DOE)					
TSP Inc. #2015-20	Contract	Revit software training (NTE)	\$2,600 (DOE)					
Jacobs Precision Welding #2014-13	CO#1	Year 2 renewal (10/1/15-9/30/16)	\$15,000 (DOE)					
Insulation Enterprises, Inc. #2015-07	CO#2	Extend term to 12/31/15	n/a (DOE)					
TSP Inc. #2015-20	Mod #1	Extend term to 10/31/15	n/a (DOE)					
Dean Kurtz Construction #2013-45	CO#29	Shotcrete vacuuming in lieu of floor sealing	-\$1,723.62 (SAN)					
Rapid City Regional #2015-11	Contract	Occupational Health Screening	\$7,500 (by project)					
Ainsworth Benning Construction #2013-28 (SLHVC/CMAR)	CO#6	Add automatic door operators, box drain pipe & paint changes to scope; extend to 12/31/15	\$14,538.06 (SAN)					
Dean Kurtz Construction #2013-45	CO#30	Add CASPAR floor level patching	\$450.39 (SAN)					
Lowe Roofing, Inc. #2015-14	CO#1	Authorize/fund Administration Building emergency roof repair – NTE	\$10,000 (SAN)					
Ainsworth Benning Construction #2013-28 (SLHVC/CMAR)	CO#7	Add drinking fountain and 2 hose bibs for Manuel Bros Park restroom * to be reimbursed by City of Lead	\$3,706.62 (SAN)*					
Black Hills Pest Control #2015-15	Contract	Integrated pest management services	\$6,370 (by project)					
SDSTA/SLHVC License Agreement	Agreement	Licensing agreement for images	n/a					
Stone Land Services LLC #2015-03	CO#1	Extend term to 9/30/2016, add funding	\$1,500 (by project)					
PENDING CVD Construction #2014-08	Contract	Yates Crusher Building Roof Structural Reinforcement (RFB award w/drawn Apr 2014)	(TBD - Indirect)					
PENDING Dangermond Keane Architecture #2015-19	Contract	Long-Range Development Plan	(TBD)					

Purchase Orders (POs): 177 POs were issued in August totaling \$422,344.

Warehouse Inventory: Warehouse inventory on August 31, 2015 totaled \$212,025.

Information Technology (IT)

The transition process to a new virtual machine (VM) architecture was successfully launched with the completion of the new switches and servers with help from Golden West.

CASPAR and Black Hills Underground Campus network, phone, and wireless gear were installed, and IT participated in a LBNF/Deep Underground Neutrino Experiment (DUNE) workshop to prepare for cyberinfrastructure needs.

The Trip Action Plan, Precipitation, and Action Tracking databases were modified to better meet user needs. IT is working with EHS and Communications to initiate training modules on the Sanford Lab website, and a new blog was initiated to share information and to address common user questions and training topics.

IT continues to review Meru Wireless, Xymon Network, and VPN Remote Access logs daily, and establishes new VPN and DocuShare accounts for individuals and user groups as needed.

User Support Office (USO)

For the month of August, logistical and administrative support were provided for the following:

- Aug 10: General Safety Basics; FSCF Design Requirements Meeting
- Aug 11: LZ Meeting (Gilchriese)
- Aug 11-13: LBNF Logistics Planning Workshop, Underground Tour (*Headley*)
- Aug 20, 21 & 28: Annual Refresher Training
- Aug 21: General Safety Basics
- Aug 26: Monthly Safety Committee Meeting; Davis Tribute Ceremony (9am at Visitor Center)
- Aug 27: Governor's Council of Economic Advisors Presentation and Tour (Headley/Walter)
- Aug 28: SURF All Hands Meeting
- Aug 31: Cultural Advisory Committee Meeting (Russell)

Preparation and planning continue for upcoming meetings and events to be held at Sanford Lab:

- Sep 9: Safety Committee Meeting
- Sep 14: General Safety Basics Training
- Sep 17: SDSTA Board of Directors Meeting
- Sep 21: ManagerPlus Webinar
- Sep 25: School Event for the South Dakota Festival of the Books (*Norris*)
- Sep 28-30: Underground Access Department Review
- Oct 2: Governor's Policy Staff Underground Tour (*Headley*)
- Oct 2, 14 & 16: School Field Trips to Sanford Lab (*Norris*)
- Oct 8: South Dakota Office of Homeland Security Staff Underground Tour (Schroeder)
- Oct 13-15: LZ EHS & Infrastructure Reviews
- Oct 27-29: LBNF CD-3A Directors Review
- Dec 2-4: LBNF CD-3A DOE Review
- Dec 4: SURF All Hands Meeting (tentative)
- Dec 17: SDSTA Board of Directors Meeting

Monthly reports for LBNL and SDSTA were compiled, edited and distributed. Month-end reception registers were forwarded to the FBI/Homeland Security/South Dakota Fusion Center.

Monthly Researcher hours were tracked and Science training records processed. Monthly invoices were coded for the Finance Department. Telephone lists were updated. Safety messages and other important news continue to be updated on a daily basis on digital displays throughout facility. DocuShare collections continue to be organized and archived as needed. Mandy continues to assist the Communications Department with copyediting and updating content on the Sanford Laboratory website, as needed.

Work also continues on updating the SDSTA policies and procedures. Dr. Robert Wilson has been appointed to the SDSTA Board and Mr. Thomas C. Adam has retired. The Boards and Commissions portal, along with the Sanford Lab website, will be updated in September to reflect this change.

Finance and Human Resources Department Nancy Geary, Chief Financial Officer and Department Manager

Included in the Financial Report are the following:

- DOE SDSTA FY2015 SPA Curve as of August 2015
- Balance Sheet as of August 31, 2015
- Comprehensive Statement of Income August 2015
- Comparative Balance Sheet August 2015 vs. August 2014
- Comparative Statement of Income August 2015 vs. August 2014
- Available Cash as of August 2015
- Operating Budget Summary
- CAPEX Budget Summary
- August 2015 and YTD CAPEX Budget actual vs. budget
- SDSTA Staffing Plan by Funding Source as of August 2015

Department of Energy (DOE) SDSTA FY2015 Scheduled Performed Actual (SPA) Curve

This graph represents an analysis of the DOE Subcontract No. 6994297 Operations scheduled funding compared to actual. The report shows funding through September 2015 along with information related to Funded-to-Date dollars, Scheduled dollars, Performed dollars, and Actual dollars by month. Actual dollars represent actual invoices for the months sent to Lawrence Berkeley National Laboratory (LBNL) for reimbursement. For August, the invoices totaled \$1,185,125, which is lower than the anticipated reimbursements of \$1,358,757 by \$173,632. Since the inception of this subcontract in February 2012, the actual expenses are at \$48,105,430 which is lower than the budget of \$48,324,907 by \$219,477. As for FY2015, we are over budget by \$251,221.

Balance Sheet Items

Cash in Local Checking – Total on hand at August 31, 2015 was \$1,697,817; up from last month by \$1,074,843. Funds on hand were necessary to pay employee medical/life/vision insurance all due September 1, 2015. The high balance also contains funds from LBNL received late in August.

Cash with State Treasurer –Total balance of \$15,099,739. This has decreased from last month by \$2,855,498. This reduction is a combination of receiving the interest proration from fiscal year 2015 at \$328,073, drawing down funds for August payables at \$683,571, and transferring \$2,500,000 to the Captive Insurance Company created through the State of South Dakota. House Bill (HB) No. 1186 from the 2015 Legislative Session authorized this transfer from the SDSTA's Indemnification Fund to the Captive to provide initial capital and pay expenses.

Billed Accounts Receivable (A/R) – Billed A/R represents any open invoices based on contracts from sources such as LBNL, Fermilab, other smaller contracts from other universities, and Barrick/Homestake Mining Company. Total is at \$2,175,425; down from last month by \$526,320. Included in the balance are open invoices to LBNL for \$1,234,365; representing invoices for the Large Underground Xenon (LUX) subcontract, LUX-ZEPLIN (LZ) engineering support, and invoices for the Operations subcontract No. 6994297. Additional open invoices include \$896,350 from Fermilab, \$3,250 from various other smaller university subcontracts, as well as open invoices from Barrick equaling \$40,954. Additionally there are open invoices for \$507 from Xilinx, Inc. Xilinx, Inc. is a commercial organization (rather than a university) that has established an experiment located near the 4850L at the Davis Campus. SDSTA is charging them for lab space, experiment access fees, and Sanford Lab scientific support.

Unbilled A/R – Balance of \$41,656. Unbilled A/R represents items that have not been billed on various contracts. The payroll from pay end date August 28, 2015 (paid to employees September 4, 2015) was not invoiced in August on various contracts. This amount will be invoiced in September. August's balance has decreased by \$304,022.

Other A/R – Current balance of \$304,134. This balance represents any Interest Receivable and Miscellaneous Accounts Receivable. The balance decreased by \$105,107 which is a result of receiving our fiscal year 2015 interest, plus the interest accrual for August, and activity for noncontract receivables.

Inventory/Supplies – Balance at \$2,616,992 for fixed assets being stored but not in service. The balance is unchanged from July.

Inventory Warehouse/Personal Protective Equipment (PPE) – Current balance of \$369,104. This balance represents the warehouse inventory that was purchased by SDSTA prior to federal funding and xenon gas inventory for experiment use. This balance is unchanged from July.

Other Current Assets – This listing on the balance sheet represents the balances of both prepaid insurance – \$210,690 and prepaid other – \$37,826. Total balance of \$248,516 is down from last month by \$67,086. This decrease represents the monthly insurance expense along with expensing various prepaid items in August. Monthly insurance expenses were stable at \$45,538 including worker's compensation.

Fixed Assets – Total of \$86,842,528 (net of depreciation through August 31, 2015). Fixed assets (prior to depreciation) increased for the capitalization of a 4-Bay Switchgear set for \$81,000. Including depreciation for August, the net decrease for fixed assets is \$145,225.

Other Assets/Work in Progress – This balance represents the current fiscal year progress being made using Sanford/SDSTA Funds to support the budgeted projects on the CAPEX budget less any items that are being capitalized within the Fixed Asset designation. Current balance has increased by \$984,258 to 2,277,955. The balance represents the current year's project costs (not including personnel) funded by these sources.

Other Assets/Capital Lease – This balance of \$492,450 represents the deep pump system capital lease. The balance has decreased by \$14,560. The lease through AmWest, Inc. was renegotiated to include transference of property to SDSTA at the end of the lease term in January 2018. The rental payments are being directly charged to the LBNL federal subcontract. Per the subcontract, the pumping system will become the property of the federal government at the end of the lease period. The equipment will be fully expensed over the period of the lease at which time it will be removed (along with the lease liability) from the SDSTA's balance sheet.

Pension Deferred Outflows – This is a new designation on our Balance Sheet to reflect the requirements related to the Governmental Accounting Standards Board (GASB) 68 and 71 in reference to pensions. The SDSTA is required to report the net pension asset or liability on the face of our financials along with related deferred inflows and outflows. The Net Pension Asset is a restricted asset. Thus, the equity created would also be restricted (restricted for pension benefits). The balance shown as a noncurrent asset is \$7,176,478 created by fiscal year 2015 final entries.

Captive Indemnification – This is a new account classification to reflect the transfer of funds from our Cash held with the State to the Captive Insurance Company. The balance of \$2,500,000 as discussed earlier under (Cash with State Treasure) was authorized by HB No. 1186 from the 2015 Legislative Session.

Total Assets – Total of \$121,842,794. This is up from last month by \$7,717,761; which represents the net activity as listed above.

Accounts Payable – Our Accounts Payable balance of \$2,376,010 (including Accounts Payable and Accounts Payable Accrual) at the end of the month compared to last month has increased by \$596,526. This increase is primarily due to owing more to an engineering subcontractor (Arup) for the Long Baseline Neutrino Facility project.

Accrued Payroll Liabilities – Current balance of \$1,050,453 has decreased by \$43,575 from last month. This represents the net change between earned vacation and vacation taken and other changes in other employee benefit related liabilities. This month's accrual also includes a labor accrual for labor performed in August, but not paid to employees until September.

Long Term Accrued Employee Benefit/Lease – This balance of \$492,450 denotes the liability associated with the capital lease for the deep pump system from AmWest, Inc. This balance has decreased by \$14,560 for the months' reduction in the lease amount owed.

Pension Deferred Inflows – This is a new classification to reflect the requirements of GASB 68 and 71, as discussed earlier. The balance of \$4,412,373 represents the net difference between projected and actual investment earnings on our pension plan with the South Dakota Retirement System (SDRS).

Total Liabilities – Total Liabilities increased by \$4,950,764 (from \$3,380,521 to \$8,331,285), which reflects the net activity listed above.

Total Equity – Increase to \$113,511,509 from the previous month \$110,744,512.

Total Liabilities & Equity – Increase to \$121,842,794 from the previous month of \$114,125,033.

Statement of Income Items

On the SDSTA's Statement of Income, the DOE Subcontracts are consolidated into one line item on the report. Included in this amount are various subcontracts from LBNL, Fermi National Accelerator Laboratory (FNAL or Fermilab), as well as a small contract for the MAJORANA project with the University of North Carolina. Total revenue for this fiscal year through August 2015 is \$3,268,623 (increase from July of \$2,065,215).

National Science Foundation (NSF) Subcontracts – SDSTA still has a small contract open through the University of Minnesota funded by NSF. July and August did not include a billing to this contract.

State Revenue – Year-to-date State Revenue equals \$14,752. Funding has been received from Black Hills State University (BHSU) in the amount of \$5,840 for the clean room-related expenses in their underground campus. The balance also includes a small amount of funding (\$912) from the University of South Dakota state research funds for the Center for Ultra-Low Background Experiments in the Dakotas (CUBED) as well as \$8,000 from the South Dakota Experimental Program to Stimulate Competitive Research (EPSCoR) to fund Davis Bahcall scholars work experience internships from this past summer.

Contributions & Donations – Fund raising activities include the receipt of \$125,000 from the Great Plains Education Foundation in support of education efforts at Sanford Lab.

Interest income recorded for the current fiscal year on State Funds is at \$20,455. This represents interest accruing at 0.75% on the cash held by the state on behalf of the SDSTA.

Direct Costs are then listed on the Statement of Income. The categories are listed to reflect the format used when invoicing on federal contracts. The classifications for Unallowable Costs and Indirect Costs are listed as well on this report to follow the federal contracting format. Direct Costs/Unallowable Costs are at \$3,061,818 for the year. Indirect Costs including fringe benefits are at \$1,010,032. Other Income for the month of August is at \$96,557 which represents miscellaneous income received from Xilinx (a private company) discussed earlier, and small amounts for water treated and electric usage for Barrick.

Net Loss for the year is at \$340,803.

Comparative Balance Sheet

Significant differences include Total Cash with State Treasurer which is lower by \$12,690,586 from this time last year as funds were expended over the 12-month period. This reduction in cash also includes the transfer of \$2,500,000 to the Captive Insurance. Billed A/R is higher than this time last year by \$837,839 primarily due to increases in the total unpaid receivables from Fermilab and LBNL. Other notable differences exist for changes in Fixed Assets which have increased by \$14,291,330 primarily due to the year-end capitalization of fixed assets for FY2015. Work in Progress has increased from this time last year by \$1,040,095 represented by an increase in activity in our CAPEX projects when comparing the two time frames. Increases of \$7,176,478 and \$2,500,000 are a result of the two new designations – Pension Deferred Outflows and Captive Indemnification, respectively. In summary, Total Assets have increased by \$13,570,477. Total Current Liabilities have increased by \$1,222,654 from this time last year, primarily due to increased accounts payable for open invoices to various subcontractors as well as an increase in accrued payroll liabilities. Total Other Liabilities have increased by \$4,297,239 primarily because of the new designation for Pension Deferred Inflows. Total Equity has increased by \$8,050,584 from this time last year. Even though Restricted Funds have decreased, the Investment in General Fixed Assets has increased for the capitalization of projects from FY2015. In summary, Total Liabilities & Equity have increased by \$13,570,477.

Comparative Profit/Loss

Total Revenue for year-to-date August 2015 compared to year-to-date August 2014 has increased by \$541,794. DOE subcontract revenue has increased by 39%. Contributions & Donations are lower when comparing the two time frames. Interest Income is lower for year-to-date August 2015 due to a lower cash balance with the State compared to last year. Direct Costs and Indirect Costs for year-to-date August 2015 compared to this time last year show a combined increase of \$969,700 (31% increase), primarily due to increased contractual services for the Long Baseline Neutrino Facility (LBNF) project. Net Income for the comparative time periods shows a decrease of \$440,976 which reflects the net activity as listed above.

Available Cash

This report reflects our available cash after noting the restricted cash balances in the Indemnification and Mine Closure accounts. The Sanford Gift No. 2 account is no longer designated as "restricted" in the same sense as the Indemnification and Mine Closure accounts due to the signing of the Fourth Amendment to the Homestake Gift Agreement. After our liabilities are noted, \$3,999,888 is available to be used for a limited scope of SDSTA expenses (Board, Administration, Communication, Education & Outreach, Science Liaison, and Sanford Visitor Center Director expenses not covered by the current DOE funding), for current contracts related to the various capital expenditure projects including the Ross Shaft Rehabilitation, and towards the specific educational projects listed in the Fourth Amendment.

Operating Budget Analysis

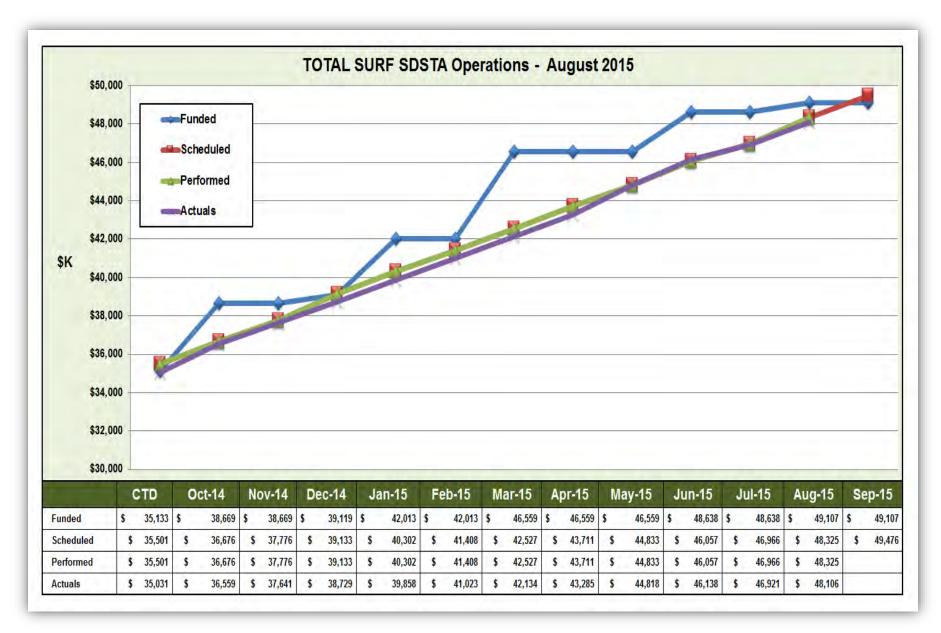
This report is separated into three sections: SDSTA-funded activities, Federal & State funded activities, and Indirect expenses that benefit various activities. A few areas are over budget for the month, but by insignificant amounts. Total operating expenses are under budget for August 2015 by \$535,734, primarily due to lower expenses in two of the Fermilab contracts. Year-to-date figures are almost all under budget for a total under run of \$1,820,367.

Capital Expenditure Budget Analysis

Our current capital expenditure projects have been condensed and are listed from CAP2012-27 - CAP2016-03 with various breaks in the numbering sequence. Total project dollars are at \$12,215,257, which represents the approved budget from the June 2015 Board meeting. All projects with the exception of the LZ Surface Facility Upgrades and LZ Xenon Gas Purchase are funded by the balance of Sanford Funds as directed by the Fourth Amendment to the Homestake Gift Agreement, funding from private fund raising activities, a small amount from BHSU, and SDSTA funds including interest. Funding for CAP2012-27 Ross Shaft Rehabilitation will be funded through Fermi Research Alliance and the DOE in late December 2015. In August 2015, SDSTA spent \$1,194,051, on our CAPEX projects out of the budgeted \$1,231,625. Year-to-date SDSTA has expended \$2,631,615 on this list of projects.

Human Resources

Currently, SDSTA has 126 full time employees and 17 temporary staff, primarily Emergency Response Team members. Mr. Walter Weinig has been selected as the new Laboratory Director to oversee day-to-day operations of Sanford Lab. He will begin employment on October 5. As for the recently posted Research Scientist position, interviews are in process. A Mechanical Engineer position was recently posted and various applicants are being considered with interviews to follow.



DOE SDSTA FY 2015 SPA Curve August 2015

17:32

PAGE 0001

DIVISION: ALL

BALANCE SHEET

ASSETS

	AS OF 08/31/15
CURRENT ASSETS	
First Interstate Checking	\$ 1,668,735.76
First Interstate Other	29,081.27
Total in Local Checking	1,697,817.03
SD Treas: Indemnification	7,617,868.59
SD Treas: Insurance	0.01
SD Treas: Mine Closure	1,378,755.95
SD Treas: Operating	41,204.29
SD Treas: Sanford	1,212,764.30
SD Treas: Sanford Gift #2	3,106,530.44
SD Treas: SB196 Transfer	1,742,615.57
Total with SD Treasurer	15,099,739.15
Billed A/R	2,175,425.43
Unbilled A/R	41,656.30
Other A/R	304,134.14
Inventory - Supplies	2,616,992.22
Inventory - Warehouse	369,104.49
Other Current Assets	248,515.62
Total Current Assets	22,553,384.38
FIXED ASSETS	
Land, Underground & Other	12,398,635.03
Bldgs & Infrastructure	8,881,327.62
Improvements	64,569,774.83
Computer Equipment	451,472.54
Equipment & Fixtures	10,052,148.82
Accum Depr & Amort	(9,510,831.14)
Total Fixed Assets	86,842,527.70
OTHER ASSETS	
Work in Process	2,277,954.56
Equipment - Capital Lease	492,449.69
Pension Deferred Outflows	7,176,478.00
Captive Indemnification	2,500,000.00
Total Other Assets	12,446,882.25
TOTAL ACCETO	
TOTAL ASSETS	\$ 121,842,794.33 =========

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DIVISION: ALL

BALANCE SHEET

LIABILITIES & EQUITY

	AS OF 08/31/15
	
CURRENT LIABILITIES	
Accounts Payable	\$ 2,284,582.81
Other Payables	91,427.32
Total Accounts Payable	2,376,010.13
Accrued Payroll Liab	1,050,452.54
Total Current Liabilities	3,426,462.67
OTHER LIABILITIES	
LT Accrued EB/Lease	492,449.69
Pension Deferred Inflows	4,412,373.00
Total Other Liabilities	4,904,822.69
STOCKHOLDER'S EQUITY	
Restricted: Indemnificati	7,500,000.00
Restricted: Captive	2,500,000.00
Restricted: Sanford I.Lab	2,897,391.48
Restricted: Mine Closure	1,378,755.95
Restricted: Sanford Gift2	2,979,083.00
Restricted: Pension	2,045,761.00
Total Restricted Funds	19,300,991.43
Investment in Gen FA	86,923,527.70
Unrestricted Funds	7,286,989.84
Total Equity	113,511,508.97
TOTAL LIABILITIES & EQUITY	\$ 121,842,794.33 ==========

ALL

STATEMENT OF INCOME

FOR THE PERIOD ENDING 08/31/15

		YR-TO-DATE
REVENUE		-
DOE Subcontracts	¢	2 260 622 72
State Revenue	\$	3,268,622.73
Contributions & Donations		14,751.57
		125,000.00
Checking Interest Interest Income		19.25
interest income		20,454.50
TOTAL REVENUE		3,428,848.05
DIRECT COSTS		
Direct Labor		1,191,403.35
ERT Labor		4,517.64
Board of Directors		639.89
Contractual Svcs		1,163,953.85
Inventory		57,288.62
Supplies		120,011.65
Travel - Domestic		20,593.89
Travel - Foreign		26,585.95
Utilities		365,506.86
Other Direct Costs		42,738.15
Unallow/Unbill Costs		68,578.28
TOTAL DIRECT COSTS		3,061,818.13
INDIRECT COSTS		
Fringe Benefits		483,003.09
Overhead		527,028.48
TOTAL INDIRECT COSTS		1,010,031.57
GROSS PROFIT FROM OPERATIONS		(643,001.65)
OTHER INCOME		
OTHER INCOME Water Treatment		72,789.06
Miscellaneous Income		23,203.80
Other Operating Income		563.90
TOTAL OTHER INCOME		96,556.76
OTHER EXPENSES		
Loss(Gain) on Sale of FA		1,904.54
Reclass Incr Net Assets		(207,546.78)
TOTAL OTHER EXPENSES		(205,642.24)
		========
NET INCOME/LOSS ()		(340,802.65)
D 444 0450		

DIVISION: ALL

COMPARATIVE BALANCE SHEET

ASSETS

		AS OF 08/31/15	AS OF 08/31/14		\$ CHANGE	% CHANGE
CURRENT ASSETS						
First Interstate Checking	\$	1,668,735.76	\$ 648,692.05	\$	1,020,043.71	157.25%
First Interstate Other		29,081.27	531,529.71		(502,448.44)	-94.53%
Total in Local Checking		1,697,817.03	1,180,221.76		517,595.27	43.86%
SD Treas: Indemnification		7,617,868.59	10,134,549.12		(2,516,680.53)	-24.83%
SD Treas: Insurance		0.01	3.71		(3.70)	-99.73%
SD Treas: Mine Closure		1,378,755.95	1,367,000.31		11,755.64	0.86%
SD Treas: Operating		41,204.29	5,535.53		35,668.76	644.36%
SD Treas: Sanford		1,212,764.30	2,896,023.19		(1,683,258.89)	-58.12%
SD Treas: Sanford Gift #2		3,106,530.44	13,387,210.27		(10,280,679.83)	-76.79%
SD Treas: SB196 Transfer		1,742,615.57	3.11		1,742,612.46	56032554.98%
Total with SD Treasurer		15,099,739.15	27,790,325.24		(12,690,586.09)	-45.67%
Billed A/R		2,175,425.43	1,337,586.53		837,838.90	62.64%
Unbilled A/R		41,656.30	25,418.65		16,237.65	63.88%
Other A/R		304,134.14	137,354.16		166,779.98	121.42%
Inventory - Supplies		2,616,992.22	2,575,749.36		41,242.86	1.60%
Inventory - Warehouse		369,104.49	370,026.47		(921.98)	-0.25%
Other Current Assets		248,515.62	458,994.17		(210,478.55)	-45.86%
Total Current Assets		22,553,384.38	33,875,676.34		(11,322,291.96)	-33.42%
FIXED ASSETS						
Land, Underground & Other		12,398,635.03	12,353,375.03		45,260.00	0.37%
Bldgs & Infrastructure		8,881,327.62	8,881,327.62			0.00%
Improvements		64,569,774.83	49,299,966.62		15,269,808.21	30.97%
Computer Equipment		451,472.54	362,464.95		89,007.59	24.56%
Equipment & Fixtures		10,052,148.82	9,234,741.03		817,407.79	8.85%
Accum Depr & Amort		(9,510,831.14)	(7,580,677.46)		(1,930,153.68)	25.46%
Total Fixed Assets		86,842,527.70	72,551,197.79		14,291,329.91	19.70%
OTHER ASSETS						
Work in Process		2,277,954.56	1,237,859.50		1,040,095.06	84.02%
Equipment - Capital Lease		492,449.69	607,583.98		(115,134.29)	-18.95%
Pension Deferred Outflows		7,176,478.00			7,176,478.00	100.00%
Captive Indemnification		2,500,000.00	-		2,500,000.00	100.00%
Total Other Assets		12,446,882.25	1,845,443.48		10,601,438.77	574.47%
		========		122		===========
TOTAL ASSETS	\$	121,842,794.33	\$ 108,272,317.61	\$	13,570,476.72	12.53%
	==			==	========	=========

REPORT DATE 09/09/15

SOUTH DAKOTA SCIENCE & TECHNOLOGY

PAGE 0002

DIVISION: ALL

COMPARATIVE BALANCE SHEET

LIABILITIES & EQUITY

		AS OF 08/31/15	AS OF 08/31/14		\$ CHANGE	% CHANGE
OUDDENTLUADUUTIEO					-	
CURRENT LIABILITIES				4		20.000
Accounts Payable	\$	2,284,582.81	\$	\$	1,037,834.13	83.24%
Other Payables		91,427.32	16,247.58		75,179.74	462.71%
Total Accounts Payable		2,376,010.13	1,262,996.26		1,113,013.87	88.12%
Accrued Payroll Liab		1,050,452.54	940,812.27		109,640.27	11.65%
Total Current Liabilities		3,426,462.67	2,203,808.53		1,222,654.14	55.48%
OTHER LIABILITIES						
LT Accrued EB/Lease		492,449.69	607,583.98		(115,134.29)	-18.95%
Pension Deferred Inflows		4,412,373.00	-		4,412,373.00	100.00%
Total Other Liabilities		4,904,822.69	607,583.98		4,297,238.71	707.27%
TOTAL LIABILITIES		8,331,285.36	2,811,392.51		5,519,892.85	196.34%
STOCKHOLDER'S EQUITY						
Restricted: Indemnificati		7,500,000.00	10,000,000.00		(2,500,000.00)	-25.00%
Restricted: Captive		2,500,000.00	-		2,500,000.00	100.00%
Restricted: Sanford I.Lab		2,897,391.48	9,262,521.00		(6,365,129.52)	-68.72%
Restricted: Mine Closure		1,378,755.95	1,367,000.31		11,755.64	0.86%
Restricted: Sanford Gift2		2,979,083.00	5,651,945.00		(2,672,862.00)	-47.29%
Restricted: Pension		2,045,761.00	•		2,045,761.00	100.00%
Total Restricted Funds		19,300,991.43	26,281,466.31		(6,980,474.88)	-26.56%
Investment in Gen FA		86,923,527.70	72,551,197.79		14,372,329.91	19.81%
Unrestricted Funds		7,286,989.84	6,628,261.00		658,728.84	9.94%
TOTAL EQUITY		113,511,508.97	105,460,925.10		8,050,583.87	7.63%
TOTAL LIABILITIES & FOLIET	=			==		
TOTAL LIABILITIES & EQUITY	\$ =	121,842,794.33	\$ 108,272,317.61	\$ ==	13,570,476.72	12.53%

COMPARATIVE STATEMENT OF INCOME

FOR THE PERIOD ENDING 08/31/15

		YEAR		PRIOR YEAR		
<u> </u>		TO DATE		TO DATE	\$ CHANGE	% CHANGE
REVENUE	Oz.	122001922			2 14 2 2 2 3 4	
DOE Subcontracts	\$	3,268,622.73	\$	2,351,972.39 \$	916,650.34	38.97%
State Revenue		14,751.57		411.49	14,340.08	3484.92%
Contributions & Donations		125,000.00		500,000.00	(375,000.00)	-75.00%
Checking Interest		19.25		11.36	7.89	69.45%
Interest Income		20,454.50		34,658.99	(14,204.49)	-40.98%
TOTAL REVENUE		3,428,848.05		2,887,054.23	541,793.82	18.77%
DIRECT COSTS						
Direct Labor		1,191,403.35		1,218,376.07	(26,972.72)	-2.21%
ERT Labor		4,517.64		4,765.50	(247.86)	-5.20%
Board of Directors		639.89		34.52	605.37	1753.68%
Contractual Svcs		1,163,953.85		350,179.27	813,774.58	232.39%
Emergency Resp				189.64	(189.64)	-100.00%
Inventory		57,288.62		35,407.26	21,881.36	61.80%
Supplies		120,011.65		69,215.86	50,795.79	73.39%
Travel - Domestic		20,593.89		12,369.68	8,224.21	66.49%
Travel - Foreign		26,585.95		21,104.19	5,481.76	25.97%
Utilities		365,506.86		276,631.94	88,874.92	32.13%
Other Direct Costs		42,738.15		43,412.37	(674.22)	-1.55%
Unallow/Unbill Costs		68,578.28		68,441.29	136.99	0.20%
TOTAL DIRECT COSTS		3,061,818.13		2,100,127.59	961,690.54	45.79%
INDIRECT COSTS						
Fringe Benefits		483,003.09		447,150.58	35,852.51	0.000/
Overhead		527,028.48		554,870.95		8.02%
Overneau		527,020.40		554,670.95	(27,842.47)	-5.02%
TOTAL INDIRECT COSTS		1,010,031.57		1,002,021.53	8,010.04	0.80%
GROSS PROFIT		(643,001.65)		(215,094.89)	(427,906.76)	198.94%
OTHER INCOME						
Water Treatment		72,789.06		59,414.82	13,374.24	22.51%
Miscellaneous Income		23,203.80		11,797.40	11,406.40	96.69%
Other Operating Income		563.90		-	563.90	100.00%
TOTAL OTHER INCOME		96,556.76		71,212.22	25,344.54	35.59%
OTHER EXPENSES						
Loss(Gain) on Sale of FA		1,904.54		200	1,904.54	100.00%
Reclass Incr Net Assets		(207,546.78)		(244,055.66)	36,508.88	-14.96%
TOTAL OTHER EXPENSES		(205,642.24)		(244,055.66)	38,413.42	-15.74%
		==========		======		
NET INCOME/LOSS ()	•		œ		(440.075.04)	440.040
NET INCOME/LOSS ()	\$	(340,802.65)	\$	100,172.99 \$	(440,975.64)	-440.21%

South Dakota Science & Technology Authority Available Cash 8/31/2015

Cash Total Checking/Savings	\$ 1,697,817.00
Cash With State Treasurer	\$ 15,099,739.00
Total Cash	\$ 16,797,556.00
Less: Restricted Funds Indemnification & Mine Closure	\$ (8,878,756.00)
Total Cash (Not Restricted)	\$ 7,918,800.00
Less: Total Liabilities w/out Pension Def. Inflows	\$ (3,918,912.00)
Available Cash	\$ 3,999,888.00

SDSTA Operating Budget Summary FY2016 Actual vs Budget Aug. 2015 & YTD

			\$ Over/Under				\$ Over/Under		
	August 2015	Budget	Budget	% of Budget	Actual YTD	YTD Budget	Budget	% of Budget	% Remaining
SDSTA (Authority) Direct Charges									100%
Board of Directors	\$18,078.00	\$19,517.00	\$1,439.00	92.63%	\$36,357.00	\$39,034.00	\$2,677.00	93.14%	6.86%
Executive Office	\$16,178.00	\$15,576.00	-\$602.00	103.87%	\$26,469.00	\$31,622.00	\$5,153.00	83.70%	
Communications	\$10,889.00	\$15,871.00	\$4,982.00	68.61%	\$21,551.00	\$33,080.00	\$11,529.00	65.15%	34.85%
Science Center E & O	-\$215.00	\$0.00	\$215.00	100.0%	\$23,986.00	\$25,749.00	\$1,763.00	93.15%	
Science Liaison	-\$900.00	\$373.00	\$1,273.00	-241.29%	\$97.00	\$746.00	\$649.00	13.00%	
Sanf.L.Visitor C. (Director)	\$6,629.00	\$6,131.00	-\$498.00	108.12%	\$10,607.00	\$12,846.00	\$2,239.00	100.00%	
Subtotal	\$50,659.00	\$57,468.00	\$6,809.00	88.15%	\$119,067.00	\$143,077.00	\$24,010.00	83.22%	16.78%
Federal/State Funding - Direct Charges									
Fermi P.O.#618228 Staff Services	\$54,266.00	\$29,195.00	-\$25,071.00	185.87%	\$85,261.00	\$61,168.00	-\$24,093.00	139.39%	-39.39%
Fermi P.O.#618741 Excav.Des.	\$216,156.00	\$385,945.00	\$169,789.00	56.01%	\$216,156.00	\$771,890.00	\$555,734.00	28.00%	
Fermi P.O.#620223 Building/Infra.	\$554,942.00	\$758,226.00	\$203,284.00	73.19%	\$554,942.00	\$1,516,452.00	\$961,510.00	36.59%	63.41%
Fermi P.O.#622034 WasteRockSt.	\$5,525.00	\$15,700.00	\$10,175.00	35.19%	\$14,593.00	\$46,800.00	\$32,207.00	31.18%	68.82%
LBNL LUX C#6973786	\$11,038.00	\$13,350.00	\$2,312.00	82.68%	\$20,679.00	\$29,133.00	\$8,454.00	70.98%	29.02%
LBNL Operations C#6994297	\$951,012.00	\$1,089,805.00	\$138,793.00	87.26%	\$1,580,239.00	\$1,820,195.00	\$239,956.00	86.82%	13.18%
LBNL LUX/Zeplin C#7093667	\$13,436.00	\$14,322.00	\$886.00	93.81%	\$21,229.00	\$29,764.00	\$8,535.00	71.32%	28.68%
MJD (Majorana) # 5-4473	\$1,869.00	\$2,000.00	\$131.00	93.45%	\$3,909.00	\$4,000.00	\$91.00	97.73%	2.28%
CUBED - USD	\$11.00	\$500.00	\$489.00	2.2%	\$730.00	\$1,000.00	\$270.00	73.00%	27.00%
Sanf.Sci.Ed.Center - GOED Funded	\$78,857.00	\$25,000.00	-\$53,857.00	315.43%	\$78,857.00	\$50,000.00	-\$28,857.00	157.71%	-57.71%
U. of Minn. DUGL#A003778902	\$0.00	\$0.00	\$0.00	0.0%	\$0.00	\$1,000.00	\$1,000.00	0.00%	100.00%
* Xilinx, Inc. P.O.#729923	\$203.00	\$570.00	\$367.00	35.61%	\$405.00	\$1,140.00	\$735.00	35.53%	64.47%
Subtotal	\$1,887,315.00	\$2,334,613.00	\$447,298.00	80.84%	\$2,577,000.00	\$4,332,542.00	\$1,755,542.00	59.48%	40.52%
Indirect Expenses									
Indirect Charges Personnel	\$87,247.00	\$89,145.00	\$1,898.00	97.87%	\$180,203.00	\$182,238.00	\$2,035.00	98.88%	1.12%
Indirect Charges Other	\$187,706.00	\$267,435.00	\$79,729.00	70.19%	\$394,154.00	\$432,934.00	\$38,780.00	91.04%	8.96%
Subtotal	\$274,953.00	\$356,580.00	\$81,627.00	77.11%	\$574,357.00	\$615,172.00	\$40,815.00	93.37%	6.63%
Totals	\$2,212,927.00	\$2,748,661.00	\$535,734.00	80.51%	\$3,270,424.00	\$5,090,791.00	\$1,820,367.00	64.24%	35.76%

^{*} Private Corporation (Commercial Group)

SDSTA CAPEX Budget Summary FY15/16 Actual vs Budget August 2015 & YTD

<u>Budget Area</u>	Actual Month	FY2015 Monthly Budget	\$ Over/Under Budget	% of Budget	Actual YTD	FY2015 YTD Budget	\$ Over/Under Budget	% of Budget	% Remaining
									100.00%
Operational CAPEX	\$ 1,194,051.30	\$ 1,231,625.00	\$ 37,573.70	96.95%	\$ 2,631,615.02	\$ 12,215,257.00	\$ 9,583,641.98	21.54%	78.46%
TOTAL CAPEX	\$ 1,194,051.30	\$ 1,231,625.00	\$ 37,573.70	96.95%	\$ 2,631,615.02	\$ 12,215,257.00	\$ 9,583,641.98	21.54%	78.46%

SD Science & Technology Authority Operational CAPEX Budget Monthly Actual vs Budget

Project #	Project Description		Aug. 2015	Budget	\$ Over/UnderBudget		% of Budget	
CAP2012-27	Ross Shaft Furnishings Repl.M&S	\$	189,417.90	\$ 256,990.00	\$	67,572.10	73.71%	
CAP2012-28	Work Decks	\$	577.97	\$ 1,000.00	\$	422.03	57.80%	
CAP2012-32	SDSTA Personnel	\$	170,778.92	\$ 203,410.00	\$	32,631.08	83.96%	
CAP2014-01	Sanford Visitor Center Design & Construction	\$	80,470.28	\$ 100,000.00	\$	19,529.72	80.47%	
CAP2014-05	CASPAR Experiment Development	\$	-	\$ 50,225.00	\$	50,225.00	0.00%	
CAP2014-06	BHSU Jonas Science Building Renovation	\$	320,942.64	\$ 250,000.00	\$	(70,942.64)	128.38%	
CAP2014-09	CASPAR Facility Development	\$	158,909.51	\$ 200,000.00	\$	41,090.49	79.45%	
CAP2014-11	BHSU Facility Development	\$	149,357.44	\$ 70,000.00	\$	(79,357.44)	213.37%	
CAP2016-01	Sanford Visitor Center Exhibit Davis Tribute	\$	65,368.59	\$ 80,000.00	\$	14,631.41	81.71%	
CAP2016-02	LZ Surface & Facility Upgrades	\$	58,228.05	\$ 20,000.00	\$	(38,228.05)	291.14%	
CAP2016-03	LZ Xenon Gas	\$		\$	\$	•	0.00%	
	Monthly Totals	\$	1,194,051.30	\$ 1,231,625.00	\$	37,573.70	96.95%	

SD Science & Technology Authority Operational CAPEX Budget YTD FY2016 Actual vs Budget

Project #	Project Description	August YTD		Y2016 Budget	\$0	ver/UnderBudget	% of Budget	% Remaining
								100%
CAP2012-27	Ross Shaft Furnishings Repl.M&S	\$600,185.63	\$	3,212,394.00	\$	2,612,208.37	18.68%	81.32%
CAP2012-28	Work Decks	\$724.22	\$	34,577.00	\$	33,852.78	2.09%	97.91%
CAP2012-32	SDSTA Personnel	\$285,255.93	\$	2,399,004.00	\$	2,113,748.07	11.89%	88.11%
CAP2014-01	Sanford Visitor Center Design & Construction	\$150,284.25	\$	337,017.00	\$	186,732.75	44.59%	55.41%
CAP2014-05	CASPAR Experiment Development	\$0.00	\$	301,347.00	\$	301,347.00	0.00%	100.00%
CAP2014-06	BHSU Jonas Science Building Renovation	\$411,789.64	\$	1,116,209.00	\$	704,419.36	36.89%	63.11%
CAP2014-09	CASPAR Facility Development	\$745,150.58	\$	959,709.00	\$	214,558.42	77.64%	22.36%
CAP2014-11	BHSU Facility Development	\$304,684.13	\$	275,000.00	\$	(29,684.13)	110.79%	-10.79%
CAP2016-01	Sanford Visitor Center Exhibit Davis Tribute	\$65,368.59	\$	80,000.00	\$	14,631.41	81.71%	18.29%
CAP2016-02	LZ Surface Facility Upgrades	\$68,172.05	\$	1,500,000.00	\$	1,431,827.95	4.54%	95.46%
CAP2016-03	LZ Xenon Gas	\$0.00	\$	2,000,000.00	\$	2,000,000.00	0.00%	100.00%
	Totals	\$2,631,615.02	\$	12,215,257.00	\$	9,583,641.98	21.54%	78.46%

Source/WBS	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
SDSTA	2.40	2.40	2.40	2.40	2.40	2.40	2.40	3.20	3.20	4.20	4.20	4.20
Administration	0.40	0.40	0.40	0.40	0.40	0.40	0.40	1.20	1.20	1.20	1.20	1.20
Communication	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00
DOE OPERATIONS	77.60	77.60	77.60	75.60	75.60	74.60	74.80	74.80	74.30	74.30	74.30	74.30
Administration	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.00	1.00	1.00	1.00
EHS	9.00	9.00	9.00	8.00	8.00	8.00	8.50	8.50	8.50	8.50	8.50	8.50
Engineering	4.60	4.60	4.60	4.60	4.60	4.60	4.30	4.30	4.30	4.30	4.30	4.30
Science	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65
Operations												
Management	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Ross Shaft	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10
Yates Shaft	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
Hoist Operations	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Hoist Maintenance	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86	2.86
Ventilation	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
Hazard Mitigation	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Water Treatment	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20
Dewatering	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Electrical Power Distribution	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
Cyberinfrastructure	2.25	2.25	2.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
Buildings and Grounds	6.93	6.93	6.93	6.93	6.93	5.93	5.93	5.93	5.93	5.93	5.93	5.93
Equipment Maintenance	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Davis Campus	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
SDSTA CAPEX	28.25	28.25	28.25	28.25	28.25	28.25	30.25	30.25	30.25	29.90	29.90	29.90
GEN 2 LZ	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
LBNE DESIGN	1.65	1.65	1.65	1.65	1.65	1.65	1.05	1.75	1.75	1.75	1.75	1.75
LBNE NEPA	0.50	0.50	0.50	0.50	0.50	0.50	0.00	0.00	0.00	0.00	0.00	0.00
LUX OPERATIONS	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
INDIRECT	13.10	13.10	13.10	13.10	13.10	13.10	13.10	13.10	14.10	14.10	14.10	14.10
Grand Total	125.43	125.43	125.43	123.43	123.43	122.43	123.53	125.03	125.53	126.18	126.18	126.18

SDSTA Staffing Plan by Funding Source August 2015

South Dakota Science and Technology Authority Board Meeting – September 17, 2015

Executive Director's Report – Mr. Mike Headley

7B.	Attached is the Easement Agreement between Homestake and SDSTA, excluding Exhibits.

Agenda Item: 07B

Recommended Action:

Motion to approve easement agreement between Homestake and SDSTA, and to authorize the chairperson or executive director, in consultation with legal counsel, to finalize and agree to the terms of the Exhibits hereto.

Prepared by: Max Main Bennett, Main & Gubbrud, P.C. 618 State Street Belle Fourche, SD 57717 Telephone 605.892.2011

EASEMENT AGREEMENT

THIS EASEMENT AGREEMENT (the "Agreement") is entered into effective the _____ day of ______, 2015, by and between HOMESTAKE MINING COMPANY OF CALIFORNIA ("Homestake"), of 11457 Bobtail Gulch Street, Central City, South Dakota 57754, and SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY ("SDSTA"), a body corporate and body politic of the State of South Dakota, of 630 East Summit Street, Lead, South Dakota 57754. Homestake and the SDSTA sometimes are referred to in this Agreement individually as a "Party" and collectively as the "Parties."

RECITALS

- A. SDSTA is requesting Easements (as hereinafter defined) from Homestake for the Permitted Uses (as hereinafter defined).
- B. Homestake is willing to grant SDSTA such Easements on the Property (as hereinafter defined) on the terms set forth herein.
- **NOW, THEREFORE,** in consideration of the foregoing and the covenants contained herein, Homestake and SDSTA agree as follows:
- 1. Definitions. As used in this Agreement the following capitalized terms shall have the meanings as set forth below.
- A. "Applicable Laws" means any local, state, provincial, territorial, national or federal laws, legislation, statutes, regulations, rules, treaties and orders or requirements of a court or any governmental authority that apply to the Property, or that otherwise relate to a Party's rights or obligations under this Agreement, as such laws, ordinances, rules and regulations may be amended, modified or supplemented and in effect from time to time.

4836-0612-8933.v3 HMC Rev. 9/9/2015

- **B.** "Arrangement for Disposal" has the same meaning as given to that term in the case law interpreting Section 107(a)(3) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended, 42 U.S.C. § 9607(a)(3).
- C. "Disposal" has the same meaning as given to that term in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended, 42 U.S.C. § 9601(29), and the regulations and agency guidance promulgated thereunder.
- **D.** "Environment" means any water or water vapor, any land, including land surface or subsurface, air, fish, wildlife, flora, fauna, biota and all other natural resources.
- "Environmental Laws" means all Applicable Laws and all E. covenants running with the land that relate to the protection of health or the Environment whether now existing or hereafter adopted, including without limitation those that relate to the existence, handling, manufacture, treatment, storage, disposal, use, generation, release, threatened release, discharge, refining or recycling of Hazardous Materials or reclaiming of real property, and all obligations relating to protection of the Environment arising out of any use relating to the Property. Without limiting the foregoing, Environmental Law include the Hazardous Materials Transportation Act (49 U.S.C. § 1801 et seq.), the Resource Conservation and Recovery Act of 1976, (42 U.S.C. § 6901 et seq.), the Clean Air Act (42 U.S.C. § 7401 et seq.), the Federal Water Pollution Control Act (33 U.S.C. § 1251), the Safe Drinking Water Act (42 U.S.C. § 300f et seq.), the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (42 U.S.C. § 9601 et seg.), the Toxic Substances Control Act (15 U.S.C. § 2601 et seg.), the Emergency Planning and Community Right to Know Act (42 U.S.C. § 11001, et seq.,), the Occupational Safety and Health Act (26 U.S.C. § 651 et seq.), the Pollution Prevention Act of 1990 (42 U.S.C § 13101 et seq.), the Atomic Energy Act of 1954, 68 Stat. 919, the Energy Reorganization Act of 1974, the Mine Safety and Health Act of 1977, the Uranium Mill Tailings Radiation Control Act (42 U.S.C § 7901 et seq.), and all similar or additional federal, state, local or foreign statutes, all as amended, and all regulations promulgated thereunder, in each case as currently existing or as may hereinafter be promulgated.
- **F.** "Environmental Permit" means all permits, licenses, approvals, authorizations, consents or registrations required by any applicable Environmental Law in connection with the SDSTA's development, construction, equipping, use and/or operation of the Property.

- "Environmental Risk Insurance" means a policy of insurance, G. underwritten by a reputable insurer with a security rating from A. M. Best of not less than A-VII, or another insurer approved in writing by Homestake in its sole discretion, that provides coverage for remediation and reclamation, bodily injury, property damage, contractual liability and defense costs arising out of or related to SDSTA's activities on or associated with the Property: (i) risks associated with on-site and off-site cleanup costs, bodily injury and property damage claims relating to pre-existing and new environmental conditions, (ii) risks associated with past or future violations of Environmental Laws, and (iii) risks arising out of the SDSTA's use, operation, reclamation, closure or remediation of the Property by, as applicable, the State of South Dakota, the SDSTA, and its or their representatives or by anyone else. Such insurance shall specifically include contractual liability coverage (including, in particular, coverage applicable to the contractual indemnifications given by the State of South Dakota and the SDSTA to Homestake and provide coverage for legal defense expenses paid or incurred concerning any claim potentially covered under such insurance. The Environmental Risk Insurance will contain no special limitations on the scope of coverage provided to Homestake.
- H. "Hazardous Material" means any substance: (i) the presence of which requires reporting, investigation, removal or remediation under any Environmental Laws, including without limitation, mine tailings, waste dumps and other materials; (ii) that is defined as a "hazardous waste," "hazardous substance" or "pollutant" or "contaminate" under any Environmental Laws; (iii) that is toxic, explosive, corrosive, flammable, ignitable, infectious, radioactive, reactive, carcinogenic, mutagenic or otherwise hazardous and is regulated under any Environmental Laws; (iv) the presence of which on a property causes or threatens to cause a nuisance upon the property or to adjacent properties or poses or threatens to pose a hazard to the health or safety of persons on or about the property; (v) that contains gasoline, diesel fuel or other petroleum hydrocarbons; or (vi) that contains PCBs, asbestos or urea formaldehyde foam insulation.
- I. "Liabilities" means all liabilities (whether contingent, fixed or unfixed, liquidated or unliquidated, or otherwise), obligations, deficiencies, demands, claims, suits, actions, causes of action, assessments, losses, costs, interest, fines, penalties, or damages, (including costs or expenses of any and all investigations or proceedings and reasonable fees and expenses of attorneys, accountants and other experts).
- J. "Open Cut" means the open pit at the Homestake Mine in Lead, South Dakota.

- **K.** "**Property Donation Agreement**" means the April 14, 2006 agreement the Parties entered relating to certain real and personal property located in and near Lead, South Dakota.
- **L.** "**Release**" has the same meaning as given to that term in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended, 42 U.S.C. § 9601(22), and the regulations and agency guidance promulgated thereunder, and which release is required to be reported to the relevant governmental authorities under Applicable Law.
- 2. Grant of Easements: Subject to the terms and conditions hereof, Homestake hereby grants to SDSTA a permanent easement for, over and upon the real estate described on Exhibit "A" attached hereto (the "Property") for the Permitted Uses described herein (the "Primary Easement"). Also subject to the terms and conditions hereof, Homestake hereby grants two further permanent easements on the Property as follows: (1) for construction access to the Primary Easement site as shown on Exhibit "B" attached hereto (the "Construction Access Easement"); and (2) for maintenance access to the Primary Easement site as shown on Exhibit "C" attached hereto (the "Maintenance Access Easement"). The Primary Easement, the Construction Access Easement and the Maintenance Access Easement are sometimes referred to herein collectively as "the Easements".
- 3. <u>Permitted Uses</u>: SDSTA may only use the Primary Easement for the purpose of disposing of excavated rock excavated from the former Homestake gold mine located in and near Lead, South Dakota to facilitate the construction, enlargement, modification or maintenance of underground laboratory facilities and related support and infrastructure facilities (the "Permitted Uses").

4. Easement Conditions:

A. Permits. Prior to commencing any activities authorized by the Easements, including, without limitation, use and occupancy of the Property for the Permitted Uses, SDSTA shall obtain all necessary Environmental Permits as well as all other consents, approvals and actions of, filings with, and notices to any governmental authority or third party necessary to permit the SDSTA to use the Easements and Property. Further, SDSTA shall conduct engineering analysis, geologic mapping and characterization, and all other studies of the Environment required for any Environmental Permit or other governmental or third party consent. Activities authorized by the

Easements may only be commenced after SDSTA provides to Homestake copies of the Environmental Permits and any other necessary permits and approvals.

- **B.** Engineering Study-High Wall Stability. Prior to commencing any activities authorized by the Easements, including, without limitation, use and occupancy of the Property for the Permitted Uses, SDSTA shall cause an engineering study to be completed to determine if the placement of excavated rock will adversely impact high wall stability of the Open Cut. A written report summarizing the study shall be furnished to Homestake. Activities authorized by the Easements may only be commenced after Homestake, in its sole discretion, acting reasonably, approves the engineering study and report.
- C. Further Engineering, Geologic, Reclamation, and Other Studies. Prior to commencing any activities authorized by the Easements, including, without limitation, use and occupancy of the Property for the Permitted Uses, SDSTA shall conduct other studies required by any governmental authority, or such other studies necessary to demonstrate that use of the Open Cut, including the deposition of all materials and substances in the Open Cut, the Property, and the surrounding Environment for Permitted Uses will not have an unreasonably negative impact. These studies will include, without limitation, engineering, geologic, reclamation, transportation (on or off Property), archeology, or historic preservation studies. Such studies must be approved in writing by Homestake in its sole discretion, acting reasonably, before SDSTA may use or occupy the Property for the Permitted Uses. Such approval shall not relieve SDSTA from its responsibility for all Liabilities or its obligation to indemnify Homestake, all as set forth in this Agreement.
- D. General Conditions. Excavated rock generated by SDSTA may be brought to the surface and delivered to the Primary Easement or delivered from the underground directly to the Primary Easement. Excavated rock brought to the surface will be transported to the Primary Easement via truck, a conveyer system or some combination of the two. SDSTA will manage and pay for the design, construction, maintenance, and demolition of any new installations or modifications of or within the Easements to facilitate transportation of excavated rock to the Primary Easement. SDSTA shall use reputable professional engineering firms to provide designs for such installations, which design shall be subject to Homestake's review and approval. Homestake agrees to expedite its review of design documents and in any event to respond with approval or requests for changes within 60 days of submission of a design document. If road or other infrastructure modifications are required to facilitate truck transport across the Construction Access Easement, SDSTA shall be responsible to

design and pay for any such modifications, and SDSTA shall be responsible and pay for maintenance of the Construction Access Easement while it is in use for the purposes described herein. Upon completion of the placement of excavated rock contemplated hereby, SDSTA shall leave the Construction Access Easement in similar or better condition than prior to the commencement of work, at which time SDSTA's obligation to maintain the Construction Access Easement shall cease. There shall be no limits on the chemical, physical, or geological characteristics of the excavated rock material deposited on the Primary Easement. SDSTA shall be responsible for all environmental controls associated with the transportation and disposal of excavated rock hereunder. Excavated rock shall be placed such that all water drainage from the material placed by SDSTA flows to the SDSTA's facilities, to be treated by SDSTA before discharged to the environment. Quantities of placement shall be limited by physical space availability only, with expected quantities in the range of one million to five million tons.

- **E.** Terraville Road. If a primary route for trucking excavated rock will be the Terraville Road, then SDSTA must take reasonable measures to accommodate Homestake's use of the road.
- **F. Non-Exclusive.** All the Easements granted herein are non-exclusive, and Homestake reserves the right to enter the Easements, at its sole risk. Homestake cannot unreasonably interfere with the SDSTA's Permitted Use under this Easement.
- 5. <u>Health and Safety Plan</u>: Prior to SDSTA commencing any work or activities on Homestake real property, SDSTA and Homestake will develop a site-specific health and safety plan, to be approved by Homestake, in its sole discretion. The health and safety plan will include all of Homestake's safety, reporting and emergency protocols. SDSTA will comply with instructions from Homestake employees regarding health and safety matters. It is the responsibility of SDSTA to contact One Call to ensure all utilities are located.

6. <u>Insurance, Limitation of Liability, and Indemnity</u>:

- **A. Employment Insurance.** SDSTA shall comply with all state and federal social security and unemployment insurance laws.
- **B.** Insurance. SDSTA, from the time of commencement of any activities authorized by the Easements, shall provide and maintain in effect the types and amounts of insurance indicated in this Section with insurance companies approved by

Homestake in its sole discretion. Such coverage will be documented and SDSTA will forward such documentation to Homestake prior to use or occupancy of the Property.

- worker's Compensation Insurance. SDSTA shall secure worker's compensation insurance, including Occupational Disease (as that term is defined by South Dakota law) insurance in accordance with the laws of the State of South Dakota, and Employers' Liability Insurance in the amounts of not less than \$500,000 per person, and \$500,000 per accident.
- (2) General Liability Insurance. SDSTA shall secure general liability insurance naming Homestake as an additional insured that provides coverage for contractual liability, as well as the indemnity agreement set forth in this Agreement and products-completed operations coverage with limits of not less than \$2,000,000 and not more than \$5,000,000 applicable to bodily injury, sickness or death in any one occurrence; and not less than \$2,000,000 and not more than \$5,000,000 for loss of or damage to property in any one occurrence.
- (3) Environmental Risk Insurance. SDSTA shall secure Environmental Risk Insurance naming Homestake as an additional insured to cover any and all on-site and off-site pollution for its use or occupancy of the Property for the Easements and Permitted Uses, or provide for such coverage under policies SDSTA maintains under the Property Donation Agreement.
- (4) Subcontractors' Insurance. SDSTA shall require all of its contractors and subcontractors to obtain, maintain and keep in force during the time in which they are engaged in performing work hereunder, the coverages set forth in subparagraphs (1) and (2) above, and subparagraph (6) below, and shall furnish Homestake acceptable evidence of such insurance prior to starting work on the Homestake real property. If any contractors or subcontractors do not obtain, maintain and keep in force the required coverages, then SDSTA will be deemed to have elected to provide the required coverages under policies SDSTA maintains hereunder, or under policies SDSTA maintains under the Property Donation Agreement. Such coverage will be documented and forwarded to Homestake prior to use or occupancy of the Property.
- (5) Equipment Insurance. All equipment, supplies and materials belonging to SDSTA or used by or on behalf of SDSTA for its performance hereunder shall be brought to and kept at the job site at SDSTA's sole cost, risk and expense, and Homestake shall not be liable for loss or damage thereto. Any insurance

policies carried by SDSTA or any third party on said equipment, supplies and materials shall provide for waiver of the underwriter's right to subrogation against Homestake.

- (6) Automobile Liability Insurance. SDSTA shall secure automobile liability insurance covering owned, non-owned, and hired vehicles used by SDSTA in limits not less than \$1,000,000 applicable to bodily injury, sickness or death of any one person, and \$1,000,000 for more than one person in any one occurrence; and \$1,000,000 for loss of or damage to property in any one occurrence.
- produces neutrinos or particles with a reactor on the Property, SDSTA shall, at its own expense, obtain and maintain, or cause to be obtained and maintained, nuclear liability insurance naming Homestake as an additional insured from American Nuclear Insurers with a combined property damage and bodily injury limit of liability in an amount determined by the Nuclear Regulatory Commission (NRC) covering all nuclear reactors, nuclear materials and nuclear waste in connection with the use of the Property. The deductible shall be not greater than \$250,000 per accident.
- (8) Subrogation. All policies shall be endorsed to provide that the underwriters and insurance companies of SDSTA shall not have any rights of subrogation against Homestake, or against any subsidiaries, agents, employees, invitees, servants, subcontractors, insurers, underwriters, and such other parties as Homestake may designate.
- (9) Certificates. SDSTA shall furnish Certificates of Insurance to Homestake evidencing the insurance required hereunder and, upon request, Homestake may examine true copies of the actual policies. Each certificate shall provide that thirty (30) days prior written notice shall be given the Homestake in the event of cancellation or material change in the policies. All policies shall be endorsed to provide that there will be no recourse against Homestake for payment of any premium.
- (10) Additional Insurance. By so specifying, Homestake may reasonably require additional types of insurance; provided, however that the limits thereof may not exceed the limits of liability stated in this Agreement..
- (11) **Primary Insurance.** It is hereby understood and agreed that any coverage provided Homestake by SDSTA's insurance under this Agreement is primary insurance and shall not be considered contributory insurance with any insurance policies of Homestake.

C. Limit of Liability.

- (1) SDSTA shall be responsible for all Liabilities, including, without limitation, the liabilities set forth in Section 6.D.(1) through 6.D.(6); provided, however, anything elsewhere in this Agreement to the contrary notwithstanding, that SDSTA's responsibility for Liabilities, including but not limited to any responsibility to indemnify set out in this Agreement, shall be limited to Liabilities resulting from SDSTA's use and occupancy of the Property.
- (2) The Parties agree that there are no covenants between them regarding the fitness or suitability of the Property for the Easements or Permitted Uses. WITHOUT LIMITING THE FOREGOING, HOMESTAKE EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES CONCERNING THE SUITABILITY OF THE PROPERTY FOR ANY OF SDSTA'S INTENDED USES OR FITNESS FOR A PARTICULAR PURPOSE OR APPLICATION AND SDSTA'S USE OF THE PROPERTY FOR THE EASEMENTS AND PERMITTED USES SHALL BE 'AS IS, WHERE IS' WITH ALL FAULTS
- **D. Indemnification**. SDSTA agrees to and does hereby release, indemnify and hold Homestake and its employees, agents and officers harmless from and against all Liabilities, including, without limitation, the following:
- (1) Any and all claims and liabilities, including, without limitation, costs, attorneys' fees, and expenses, for bodily injury to, or death of, persons, (including claims and liabilities for care or loss of services in connection with any bodily injury or death);
- (2) Any and all claims and liabilities, including, without limitation, costs, attorneys' fees, and expenses, for loss or destruction of or damage to any property belonging to SDSTA or others (including claims or liabilities for loss of use of any property);
- (3) Any and all claims, losses, and liabilities, including, without limitation, costs, attorneys' fees, and expenses, for any damage to Homestake property (including without limitation any environmental damages or liability) arising from any negligent or wrongful activities of SDSTA, its agents, representatives, contractors, or subcontractors;
- (4) Any and all claims, losses, and liabilities, including, without limitation, costs, attorneys' fees, and expenses, for loss (including loss of use) or HMC Rev. 9/9/2015

destruction of or damage to (a) materials, supplies, equipment and other property necessary for the work, or (b) any property of SDSTA, its agents, representatives, contractors, or subcontractors;

- (5) Any and all claims, losses, and liabilities, including, without limitation, costs, attorneys' fees, and expenses, resulting directly or indirectly from or occurring in the course of SDSTA's exercise of its rights under the Easements, including, without limitation, transportation activities on, to, or from the Property or for purposes of the Easements; and
- (6) Any and all claims, losses, and liabilities, including, without limitation, costs, attorneys' fees, and expenses, resulting directly or indirectly from (a) damage to the Environment from or related to SDSTA's, or its agent's, representative's, contractor's, or subcontractor's, use or occupancy of the Properties for the Easements or Permitted uses, (b) violation or alleged violation of Applicable Laws or Environmental Laws, or (c) violation or alleged violation of or failure to secure Environmental Permits or other governmental consents or approvals.
- 7. Perpetual Easements, Termination for Non-Use: The Easements granted herein shall be perpetual easements which shall run with the land and be binding upon, and inure to the benefit of, the Parties and their successors and assigns. Provided, however, that if SDSTA does not dispose of excavated rock within the Primary Easement Area within twenty (20) years of the date of recording of this Agreement, SDSTA's rights hereunder shall cease and shall no longer have any force or effect.
- **8.** <u>Notices</u>: Any notice, election or other correspondence required or permitted hereunder shall be deemed to have been properly given or delivered when made in writing and delivered personally to the Party to whom directed, or when deposited in the United States mail, postage prepaid, by certified mail, return receipt requested, and addressed to the Party to whom directed as follows:

If to Homestake: Homestake Mining Company of California

Attn: Site Manager

11457 Bobtail Gulch Street Central City, SD 57754

Homestake – SDSTA / Easement Agreement

With a copy to: Homestake Mining Company of California

Attn: Vice President & General Counsel, North America

460 West 50 North, Suite 500 Salt Lake City, UT 84101

If to SDSTA: South Dakota Science and Technology Authority

Attn: Mike Headley, Executive Director

630 E. Summit Lead, SD 57754

- **9. Time of Essence:** Time is of the essence of this Agreement.
- 10. <u>Compliance With All Laws</u>: In performing work under this Agreement, SDSTA, its contractors and subcontractors, shall comply with all applicable Federal, State and local laws, rules and regulations.
- 11. <u>Neutral Construction</u>: This Agreement and the wording contained herein accords with the negotiations of the Parties. Accordingly, no provision hereof shall be construed against one Party or in favor of another Party merely by reason of draftsmanship.
- 12. <u>Interpretative Matters:</u> References to Sections and Exhibits in this Agreement are to Sections of this Agreement and to the Exhibits attached hereto. Words in the singular or plural include the singular and plural and pronouns stated in either the masculine, the feminine or neuter gender shall include the masculine, feminine and neuter. When not expressly stated, the word "including" means "including but not limited to."
- 13. <u>Assignment</u>: This Agreement and the obligations, liabilities, rights and benefits hereunder, may not be assigned by either Party without the express written consent of the other Party; provided, however, that SDSTA may without Homestake's consent assign its interest herein to the United States of America, acting through the Department of Energy, upon written notice thereof to Homestake.
- 14. Entire Agreement: This Agreement constitutes the entire agreement between the Parties and supersedes all prior agreements and understandings, both written and oral, between the Parties with respect to the subject matter hereof. This Agreement may only be amended, modified or supplemented by a written instrument signed by all

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the Parties expressly stating that such instrument is intended to amend, modify or supplement this Agreement.

- Agreement shall be construed under and governed by the laws of the State of South Dakota, without the application of the conflicts of law principles thereof, and any applicable federal law. Any lawsuit arising out of or related to this Agreement shall be brought in the federal or state courts of South Dakota. Process in any such suit, action or proceeding may be served on any Party anywhere in the world, whether within or without the jurisdiction of any such court. Without limiting the foregoing, service of process on a Party may be made by mail upon the designated person at the address provided in Section 8.
- 16. Severability: If any provision or provisions of this Agreement shall be held to be invalid, illegal or unenforceable, such provision shall be enforced to the fullest extent permitted by applicable law and the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby. A provision of similar economic effect shall be substituted for any invalid, illegal or unenforceable provision.
- 17. <u>Counterparts</u>: This Agreement may be signed in counterparts, each of which will be deemed an original and all of which taken together will constitute one and the same instrument. The Parties intend that fax signatures constitute original signatures and that a faxed agreement containing the signatures (original or faxed) of all the Parties is binding on the Parties.

IN WITNESS WHEREOF, the Parties have executed this Agreement the day and year first above written.

[SIGNATURE PAGE FOLLOWS]

HOMESTAKE MINING COMPANY OF CALIFORNIA

Dated	, 2015. By:	Signature	
		Printed Name and Title	
Dated	, 2015. By:		
		Signature	
		Printed Name and Title	
		DAKOTA SCIENCE AND TECHNOLOG ORITY	Y
Dated	, 2015. By:		
		Signature	
		Executive Director	
		Printed Name and Title	

STATE OF		
COUNTY OF) ss.)	CORPORATE ACKNOWLEDGMENT
On this the da personally appeared for H	ny of	, 2015, before me, the undersigned officer, known to me to be the KE MINING COMPANY OF CALIFORNIA, ted to sign the foregoing instrument on behalf of
the corporation for the purpo	ses therein	contained.
IN WITNESS WHER	EOF, I here	eunto set my hand and official seal.
		Notary Public My Comm. Expires
STATE OF)) ss.	CORPORATE ACKNOWLEDGMENT
On this the da personally appeared for H	ny of	, 2015, before me, the undersigned officer, known to me to be the KE MINING COMPANY OF CALIFORNIA,
	vas authoriz	zed to sign the foregoing instrument on behalf of
IN WITNESS WHER	EOF, I here	eunto set my hand and official seal.
		Notary Public
		My Comm. Expires
		HMC Rev. 9/9/2015

Homestake – SDSTA / Easement Agreement				
STATE OF				
COUNTY OF) ss. CORPORATE ACKNOWLEDGMENT			
On this the da	y of, 2015, before me, the undersigned officer, known to me to be SOUTH DAKOTA SCIENCE AND TECHNOLOGY			
AUTHORITY, and on oa	SOUTH DAKOTA SCIENCE AND TECHNOLOGY the stated that he was authorized to sign the foregoing for the purposes therein contained.			
IN WITNESS WHER	EOF, I hereunto set my hand and official seal.			
	Notary Public			
	My Comm. Expires			

South Dakota Science and Technology Authority Board Meeting – September 17, 2015

Executive Director's Report – Mr. Mike Headley

Agenda Item: 07C

/C. I laccholder - Strategic I lan Repor	- Strategic Plan Report	C. Placeholder	7C.
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South Dakota Science and Technology Authority Board Meeting – September 17, 2015

Executive Director's Report – Mr. Mike Headley

7D.	Attached a	are the	signed	Declarations	of Surplus	for the	following:

Agenda Item: 07D

- ATV
- Refuge Chambers

Recommended Action:

Informational



DECLARATION OF SURPLUS PROPERTY

The 2008 Artic Cat diesel ATV #109, Serial No. 4UF08ATV68T220669, was removed from service in July, 2015. The cost to restore this vehicle to a safe and usable condition would greatly exceed its value.

The South Dakota Science and Technology Authority (SDSTA) has no further use for this property. It will be used for replacement parts for other ATVs in use on the property. ATV #109 has a net value of One Thousand Nine Hundred Four Dollars and Fifty-four Cents (\$1,904.54) after depreciation.

I hereby declare the 2008 Artic Cat diesel ATV #109 to be Surplus Property.

Dated at Lead, South Dakota this 28th day of August, 2015.

Mike Headley

SDSTA Executive Director



DECLARATION OF SURPLUS PROPERTY

The South Dakota Science and Technology Authority (SDSTA) purchased two refuge chambers from MineARC SYSTEMS AMERICA LLC in July 2007 for One Hundred Forty-Three Thousand Three Hundred Sixty-Nine Dollars and Forty-Eight Cents (\$143,369.48).

While the refuge chambers appear on the SDSTA Fixed Asset Inventory of Supplies Listing, depreciation has not been applied because the chambers were never put into service. The refuge chambers are inoperable in their current condition, all consumable items are outdated, and they are too large to be transported underground.

Having no further use for this property, I hereby declare the two refuge chambers to be Surplus Property. The refuge chambers will be donated to the South Dakota School of Mines and Technology.

Dated at Lead, South Dakota this 9th day of September, 2015.

Mike Headley

SDSTA Executive Director

South Dakota Science and Technology Authority Board Meeting – September 17, 2015

Discuss Draft Programmatic Agreement (LBNF) – Mr. Mike Headley Placeholder – Discuss the Programmatic Agreement regarding the construction and operation of the Long Baseline Neutrino Facility and Deep Underground Neutrino Experiment (LBNF/DUNE).

Agenda Item: 08

Recommended Action:

Motion to approve the programmatic agreement regarding the construction and operation of the long baseline neutrino facility and deep underground neutrino experiment.

South Dakota Science and Technology Authority Board Meeting – September 17, 2015 Agenda Item: 09

Third Amendment to Property Donation Agreement – Mr. Tim Engel

Attached is the signed Third Amendment to the Property Donation Agreement (PDA) discussed at the June 30, 2015 meeting.

Recommended Action:

THIRD AMENDMENT TO PROPERTY DONATION AGREEMENT BETWEEN AND AMONG HOMESTAKE MINING COMPANY OF CALIFORNIA, THE STATE OF SOUTH DAKOTA AND THE SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

This Third Amendment to Property Donation Agreement ("Third Amendment") is entered into effective the Third Amended Effective Date (as defined herein) between and among Homestake Mining Company of California, the State of South Dakota and the South Dakota Science and Technology Authority.

RECITALS

- A. The parties previously entered into a Property Donation Agreement dated as of April 14, 2006, relating to certain real and personal property located in and near Lead, South Dakota (the "Donation Agreement").
- B. The Donation Agreement was amended by and through the First Amendment to Property Donation Agreement dated effective May 21, 2007 (the "First Amendment"), and by and through the Second Amendment to Property Donation Agreement dated effective September 17, 2009 (the "Second Amendment").
- C. The parties desire to further amend the Donation Agreement, as previously amended by the First Amendment and the Second Amendment, by and through this Third Amendment, to authorize the Authority to transfer \$2,500,000.00 from the Indemnification Fund to the Captive (as defined below) and to provide certain limits of insurance through coverage provided by the Captive, all upon the terms and conditions set forth herein.

Subject to the terms, conditions and covenants contained in this Third Amendment, and for good and valuable consideration, the receipt and sufficiency of which is acknowledged, the Parties agree as follows:

- 1. <u>Amendment</u>. The Donation Agreement, as previously amended by the First Amendment and the Second Amendment, is further amended as follows:
 - (a). Section 1.1 <u>Definitions</u> is amended by adding the following new subsections:
 - 1.1(k-1). "Captive" means the South Dakota Authorities Captive Insurance Company, LLC;

- 1.1(s-1). "Division of Insurance" means the South Dakota Division of Insurance, an agency and instrumentality of the State;
- 1.1(Ill-1). "Third Amended Effective Date" means the date upon which the Division issues a Certificate of Authority authorizing the Captive to act as an insurer at the levels and types of coverage provided for in this Third Amendment;
- (b). Subsection 6.8(c) is amended in its entirety to read as follows:
 - 6.8(c). as of the Third Amendment Effective Date, the Authority will maintain an unencumbered balance of \$7,500,000.00 in the Indemnification Fund, reduced only by any amounts actually spent by the Authority for indemnification of the Homestake Indemnified Parties. In the event the value of the Indemnification Fund decreases for any other reason, the Authority shall promptly restore the amount of any decrease to the Indemnification Fund;
- (c). Section 6.8 is amended to add a new subsection (f) to read as follows:
 - 6.8(f). anything elsewhere in this Agreement to the contrary notwithstanding, as of the Third Amendment Effective Date, the Authority may transfer up to \$2,500,000.00 of the existing \$10,000,000.00 balance in the Indemnification Fund into the Captive for the purposes described in the Third Amendment.
- (d). Section 6.11, subsection (e) of which was amended in the First Amendment, is further amended to add a new subsection (h) to read as follows:
 - 6.11(h). anything elsewhere in this Agreement to the contrary notwithstanding, as of the Third Amended Effective Date, if the Captive is funded with 2,500,000.00 pursuant to Section 1(c) of the Third Amendment or otherwise, the first \$1,000,000.00 of coverage under the General Liability Insurance may be provided by the Captive; provided, however that the deductible or retention thereunder may not exceed \$50,000.00. Upon Homestake's prior written consent, the Captive may provide increased limits of General Liability Insurance and may provide limits under the Environmental Risk Insurance so long as the General Liability Insurance and Environmental Risk Insurance are designed to provide equivalent financial protection to the Homestake Indemnified Parties, as determined in the reasonable discretion of Homestake. Nothing herein shall act to limit the ability of the Authority to obtain insurance coverage from the Captive that is not required by this Agreement.
- (e). Section 6.11, subsection (e) of which was amended in the First Amendment, is further amended to add a new subsection (i) to read as follows:

- 6.11(i). in the event Division of Insurance withdraws, revokes or rescinds the certificate of authority for the Captive, or issues a cease and desist or other, similar order, or it otherwise becomes obvious to the Authority, acting reasonably, that the Captive does not have sufficient capital to pay all pending claims which it is reasonably likely it will be required to pay under the coverage documents issued by the Captive, the Authority will immediately purchase replacement insurance from a commercial insurer meeting the requirements of subsection 1.1(dd) of this Agreement (for General Liability Insurance) or subsection 1.1(y) (for Environmental Risk Insurance, to the extent the Captive provides insurance limits under the Environmental Risk Insurance pursuant to Section 1(d) of the Third Amendment) to cover the risks otherwise insured by the Captive as required under this Agreement. If such coverage is not bound within thirty (30) business days of the triggering event, the Authority shall suspend all activities involving the Assets until the State of South Dakota and the Authority have obtained such coverage or provided a substitute means of protecting the Homestake Indemnified Parties to the same extent they would have been protected under this Agreement had the coverage remained available. Such substitute means may include an appropriate increase in the Indemnification Fund, posting of an irrevocable letter of credit in favor of the Homestake Indemnified Parties or some combination of methods designed to provide equivalent financial protection to the Homestake Indemnified Parties, as determined in the reasonable discretion of Homestake.
- 2. <u>Consent to Captive as Insurer</u>. Pursuant to subsection 1.1(dd) of the Donation Agreement, and subject to the terms and conditions set out below, Homestake hereby consents to coverage of the first \$1,000,000.00 of General Liability Insurance by the Captive.
- 3. <u>Donation Agreement, First Amendment and Second Amendment Remain in Effect.</u>
 Except as specifically amended in this document, the covenants, terms and conditions of the Donation Agreement, as amended by the First Amendment and the Second Amendment, remain in full force and effect.
- 4. <u>Amendment to Deed</u>. The terms of the Deed dated May 15, 2006, and recorded in the Office of the Register of Deeds, Lawrence County, South Dakota, on May 17, 2006, as document #2006-03035 are hereby amended consistent with the terms of the First Amendment, the Second Amendment and this Third Amendment.
- 5. <u>Defined Terms</u>. Capitalized terms not defined in this Third Amendment are defined in Section 1.1 of the Donation Agreement, the First Amendment or the Second Amendment.
- 6. <u>Limitation on Enforceability of Third Amendment</u>. This Third Amendment shall be of no force and effect if the Third Amended Effective Date is on or after November 15, 2015.
- 7. <u>Counterparts</u>. This Third Amendment may be executed in two or more counterparts, each of which shall be deemed an original, and all of which shall constitute one and the same instrument. The Parties agree that this Third Amendment may be transmitted between and among them by facsimile machine or by portable document format. The parties intend that a

facsimile signatures or signatures in portable document format constitute original signatures and that a facsimile or portable document format document containing the signatures (facsimile, portable document format or original) of all the Parties is binding on the Parties.

IN WITNESS WHEREOF, the Parties hereto have caused this Third Amendment to be executed effective as of the Third Amended Effective Date.

State of South Dakota
By: Duny Dangrard Dennis Daugaard, Goyernor
Date: 21 August 2015
Homestake Mining Company of California
By: Richie D. Haddock
Its: <u>Director</u>
Date:13/Aug/2015
Homestake Mining Company of California
By: Paul D. Judd
Its: <u>Tax Director</u>
Date: 13/Aug/2015

South Dakota Science and Technology Authority

By Alex Clark

Casey Peterson, Chairman

Date: Aug24, 2015

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ecommended Action	

concerning contractual and legal matters.

Motion to enter into executive session to discuss personnel matters and to consult with legal counsel

outh Dakota Science and Technology Authority oard Meeting – September 17, 2015	Agenda Item: 11
eport from Executive Session – Chairperson Casey Peterson	

South Dakota Science and Technology Authority Board Meeting – September 17, 2015 Conflict of Interest Mitigation Plan – Mr. Tim Engel

Attached is the Conflict of Interest Mitigation Plan to be discussed.

Fermi Research Alliance, LLC/ South Dakota Science and Technology Authority

Conflict of Interest Mitigation Plan

I. Executive Summary.

Mike Headley's dual role as Far Site Director for the LBNF Project for Fermi Research Alliance, LLC ("FRA") and as Executive Director of South Dakota Science and Technology Authority ("SDSTA") may put him in a negotiating and/or decision-making role for both FRA and SDSTA relating to a contract or other issue. This document is intended to provide a broad outline of the challenges to be addressed, the plan for addressing and mitigating the conflict, and related administrative procedures.

Mr. Headley's dual appointments as Far Site Director for LBNF and Executive Director of SDSTA may result in conflicts of interest resulting in his duty and desire to be loyal to, and act in the best interests of, both appointing entities. Examples of circumstances that may give rise to a conflict of interest or the appearance of a conflict of interest include:

- 1. Negotiation of pricing and other terms of contracts between FRA and SDSTA awarded on a sole-source basis.
- 2. Drafting of bid or proposal solicitation documents for either party when the other might reasonably be expected to bid or submit a proposal, including contracts awarded on a sole-source basis.
- 3. Evaluation of a bid or proposal from FRA on behalf of SDSTA or of a bid or proposal from SDSTA on behalf of FRA.
- 4. Involvement in wage rate determinations involving SDSTA employees as those determinations relate to contracts with FRA.
- 5. Evaluating and making policy decisions or recommendations when the best interests of LBNF, DUNE, or other FRA-related projects may not be fully consistent with SDSTA's broader mission to act as a multi-discipline laboratory facility.
- 6. Making determinations in the event of temporary restrictions on the availability of resources, including relating to site access, access to hoists and drifts, and other allocation of SDSTA resources, including personnel.
- 7. Making determinations concerning representations and certifications to FRA on behalf of SDSTA.

The foregoing listing is not intended to be exhaustive, but instead to be illustrative of the types of conflicts that may arise. All interested parties should continue to evaluate Mr. Headley's involvement in transactions on both sides with an eye toward identifying and mitigating possible conflicts of interest.

II. Conflict Mitigation Plan and Processes.

A. Process for identifying and addressing conflicts generally.

In order to ensure that Mr. Headley and third parties are aware of possible conflicts, or the appearance thereof, and procedures for addressing those conflicts, FRA and SDSTA will provide informal training to their respective personnel as each entity deems necessary and appropriate. This training should include, but may not necessarily be limited to, management personnel involved in the procurement process.

Mr. Headley will be mindful of possible conflicts, including the appearance of conflicts, and will endeavor to self-identify as soon as he recognizes the existence or possibility of a conflict.

Third parties working with Mr. Headley will also be mindful of and report actual and potential conflicts of interest, as well as the appearance of conflicts.

If Mr. Headley or any other person becomes aware of an actual, apparent, or potential conflict of interest, they will immediately report the matter to the General Counsels for FRA and SDSTA, respectively. Each General Counsel will designate a lawyer affiliated with their organization to act on reported conflicts in the event of their absence or inability to act. Contact information for each General Counsel and their designees is set out in Appendix A. The standard form email to be used to report a conflict is set forth in Appendix B.

Within two business days of receipt of the report, the FRA and SDSTA General Counsel will confer as to the report and make the initial determination as to the existence of a conflict and a proposed plan to mitigate the conflict. The General Counsel will jointly prepare a report generally describing the facts and circumstances giving rise to the conflict, their conclusion as to whether a conflict exists, and their proposed plan of mitigation. The report will be in the form of an email and will be sent to Mr. Headley, Tim Meyer and Chris Mossey at FRA, and the Chairman of the Board, CFO, and Laboratory Director at SDSTA.

The provisions of the paragraph immediately above notwithstanding, if Mr. Headley identifies a conflict and determines he should be recused from the decision-making process, Mr. Headley may refer the matter to the appropriate default party or parties described below in subsection B. In that event, Mr. Headley will follow the reporting procedure described above, including that the proposed plan of mitigation is to refer the matter to the default substitute decisions-maker or makers, and he will include the default substitute decision-makers on the distribution list for the email. Absent written objection from General Counsel or either of the default substitute decision-makers within two business days from receipt of the report, the report and the proposed plan of mitigation shall be deemed approved.

In the event a potential conflict of interest requires resolution prior to the expiration of the standard two business day review period, the party reporting the conflict shall call that fact to the attention of FRA and SDSTA General Counsel and General Counsel shall make reasonable efforts to resolve the matter as soon as possible.

In the event General Counsel cannot agree on the existence of a conflict and/or a plan of mitigation, the matter will be escalated to Tim Meyer at FRA and the SDSTA Laboratory Director. If the matter cannot be resolved at that level, it will be further escalated to the FRA Director and the Chairman of the Board of SDSTA, whose decision will be final and binding on the parties.

In the event Mr. Headley does not agree with the decision of General Counsel, he may escalate the decision as described above

B. Mitigation in the event of a conflict.

In the event of a conflict reasonably susceptible to and in need of mitigation, unless otherwise determined under the terms of this policy, all responsibility for the matter on the part of FRA shall default to ______ or his/her designee and all responsibility on the part of SDSTA shall default to the Laboratory Director or his/her designee. The mitigation plan may call for referring a matter to persons other than the default substitute or substitutes if under the circumstances it would be inappropriate for the default substitute or substitutes to resolve the matter. For example, the default substitute may have a conflict of interest, or the default substitute may lack the subject matter knowledge or experience necessary to address the issue appropriately.

If it is not appropriate to redirect the matter to the default parties identified above, or if they are unable or unwilling to act, General Counsel, in consultation with the management of their respective organizations (but excluding all conflicted parties) shall identify the persons to be substituted for the conflicted parties.

C. Non-disqualifying conflicts.

There may be instances where a conflict of interest exists, but it is either not practical to mitigate it or the conflict is immaterial. In those cases, General Counsel will jointly communicate their decision that the otherwise conflicted party may continue to handle the issue and the reasons therefor, along with any special conditions imposed by General Counsel.

Examples of conflicts not practical to mitigate include circumstances where there is insufficient time to include a non-conflicted party in the decision-making process or where the conflicted party is the only one with the knowledge or experience needed to manage the matter. In these circumstances, General Counsel will endeavor to mitigate the conflict by including themselves and/or other third parties in the decision-making process.

Examples of immaterial conflicts include circumstances where a conflict exists but the chances of the conflict affecting the decision-making process are remote or the amount involved is \$XXXX or less.

III. Documentation.

Appendix B contains the following:

- 1. Standard form email to General Counsel reporting a possible conflict of interest.
- 2. Standard form response from General Counsel reporting their determination as to the conflict and their mitigation plan.

All subsequent action or other communication undertaken in connection with a conflict of interest report shall be in the form of a reply or forward of the initial email report. Electronic and hard copies of such emails shall be maintained at FRA at the Office of General Counsel and at SDSTA in the office of the CFO.

IV. Annual Review.

At each annual meeting, SDSTA's General Counsel shall provide a report to the SDSTA board of directors concerning the implementation of this plan, including the number and general nature of conflicts identified, number resolved by general counsel and number resolved after escalation. The annual report will also include recommendations, if any, for changes to the overall mitigation plan.

A copy of the annual report to the SDSTA board of directors shall be provided to the FRA Office of General Counsel for review, comment, and concurrence prior to its submission.

V. Other.

Each of FRA and SDSTA will adopt policies providing that no person in an employment or contractual relationship with them may be subject to retaliation for a conflict of interest report made in good faith.

South Dakota Science and Technology Authority Board Meeting - September 17, 2015

Confirm date and time of next meeting - Chairperson Casey Peterson

The next board meeting will be held on December 17, 2015 beginning at 9:00 A.M. (MT).

Agenda Item: 13

* This is a reminder to bring your personal calendars to set next year's meeting schedule *

Meeting location:

SDSTA
630 E. Summit Street, Lead SD 57754
Administration Building/2nd Floor Vault
Please contact Mandy Knight if you have any questions.
Direct Line: 605.722.4022, Cell: 605.641.0475

Recommended Action:

None

outh Dakota Science and Technology Authority oard Meeting – September 17, 2015	Agenda Item: 14			
Board Comments – Chairperson Casey Peterson				

None